Mayor & Aldermen.

CITY DOCUMENTS.

MAYOR'S ADDRESS

TO THE CITY COUNCIL;

CITY GOVERNMENT,

ANNUAL REPORTS, ETC.,

FOR THE YEAR 1888-89.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

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1889—CITY DOCUMENT NO. 1.

ADDRESS

OF

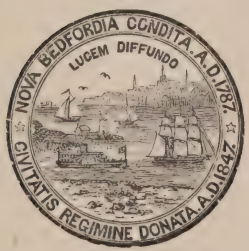
WALTER CLIFFORD,

Mayor of New Bedford,

TO THE

City Council,

JANUARY 7, 1889.



NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

ADDRESS.

Gentlemen of the City Council:

By the ceremonies just completed our fellow-citizens have placed in our keeping for the coming year their common interests, which for nearly a half century under municipal government have been constantly growing in variety and importance, until today our city stands a noble monument to the vigor and intelligence of those who laid its foundations and bears convincing testimony to the faithful stewardship of the long line of our predecessors who have built up a prosperity of which we may well feel proud.

We have now assumed this trust; and we should bear in mind that it is one of which we must render a daily account to our own conscience, as well as to the people; one to the honest administration of which we must bring an unfaltering devotion to duty, and an earnest purpose to practice those virtues by the exercise of which that prosperity has been reached, that we may not only preserve our inheritance but transmit it, enlarged and beautified, to our successors.

Today we turn a page of history; and on that which lies open before us will be inscribed a record of the part we are to play in shaping for good or ill our city's future. With wisdom gathered from its earlier pages, by an intelligent recognition of the ever increasing and varying needs of our people, and the adoption of a policy which shall stimulate and encourage the growth of new enterprises, let us make that record declare in no uncertain tones our singleness of purpose in promoting the common welfare and in pushing forward the work of progress along the path which was opened for us by the pioneers of a hundred years ago.

From them can we safely seek courage and inspiration; and to them, also, should we pay a willing tribute of praise; for it was these sturdy and patriotic men who gathered about the old Four Corners of Bedford village, and in spite of the perils of the sea, the devastations of war, and the hostility of foreign policy and competition built up from the whale-fishery an industry which compelled the admiration of the world, laid the corner-stone of our fortunes, and left us a legacy of character which it should be our highest ambition to emulate. The same spirit of enterprise which accomplished such lasting results from that historic industry, and at the same time won for New Bedford the proud boast of having sent the first ship to fly in British waters the flag which asserted our national independence, has survived the changes wrought by time and circumstances; that spirit, not content with the memory of past achievements, has sought and found new avenues of usefulness, and now, for a second time, has

succeeded in pushing the fair fame of New Bedford into the notice of the world as a city of the highest rank in the variety and prosperity of its manufacturing industries.

With our brilliant past to guide us, with the spirit of enterprise still within us, let us push forward determined to do no work that will not bear the test of time, but by a conscientious performance of our several duties to fairly earn for our city the reputation throughout this broad land of affording protection to capital, of regarding the welfare and happiness of labor as of the first importance, and of securing to its people the benefits of a well ordered community, where integrity, industry, and sobriety shall be sure to win the reward to which they are entitled, and where the burden of taxation rests equably and justly upon all.

Before entering actively upon the duties which await us, I ask your indulgence while, in obedience to custom, I briefly call your attention to some of the more important departments of the city government.

FINANCIAL.

From statements presented by the city treasurer and collector of taxes I gather the following facts in relation to the financial operations of the city during the past year.

The accounts may vary somewhat from the final statement to be presented at a later date to the City Council, as I have been obliged to depend upon estimates for the expenditures made during the last week of the financial year just closed; however, should there be any change, it will be very slight.

Taxes.

The assessments for the year were as follows:

State tax,	$40,522.50
County tax,	41,274.10
City appropriations,	486,411.00
Overlay,	19,364.30
	$587,571.90
Collections,	568,753.66
Balance of taxes uncollected,	$18,818.24

The credits to the collector were as follows:

Paid state tax,	$40.522.50
Paid county tax,	41,274.10
Paid city treasurer,	458,011.60
Discount and abatements,	28,945.46
Total,	$568,753.66

But $3\frac{2}{10}$ per cent. of the whole assessment of 1888 remains unpaid at this date.

The rate of taxation was $17 per $1000, forty cents less than in 1887, due entirely to an increase in the taxable property of the city of $772,089.

The amounts received from the Commonwealth in settlement of the usual yearly accounts were as follows:

Corporation taxes,	$55,213.14
Tax from national banks out of the city,	3,343.97
Tax on ships in foreign trade,	1,779.43
	$60,336.54

Of the taxes of 1887 and previous years, the collections amounted to $9610.25.

Receipts and Expenditures.

The receipts and expenditures the past year, including balance of cash in the treasury January 2, 1888, have been as follows:

Balance January 2, 1888,		$17,544.41
Received from collector of taxes:		
Taxes, 1888,	$458,011.60	
Taxes, 1887,	6,361.03	
Taxes, 1886,	2,932.53	
Taxes, 1885,	107.28	
Taxes, 1884,	78.70	
Taxes, 1883,	82.96	
Taxes, 1882,	47.75	
Received from other sources,	767,252.27	1,234,874.12
Total receipts, including balance,		$1,252,418.53
Expenditures, as per warrants of the mayor,		1,220,221.65
Balance January 7, 1889,		$32,196.88

The receipts for water rates are included in the foregoing statements.

Amount received from rates in 1888,	$48,737.61
Amount received from rates in 1887,	46,038.06
Increase,	$2,699.55

Appropriations.

The appropriations for the past year have been as follows:

General appropriations,		$516,411.00
Special appropriations:		
Cemeteries,	$2,500.00	
City stable and lot,	11,580.44	
Engine house and lot, Durfee street,	1,400.00	
Fire department,	4,700.00	
Harrington school house and lot,	38,264.56	

Highway department,	$5,500.00	
Incidentals,	550.00	
New Bedford and Fairhaven bridge,	500.00	
Police department,	8,900.00	
Public schools,	10,000.00	
Repairs of city property,	3,455.00	
Sewers, construction and repairs,	55,173.20	$142,523.20
The total amount of appropriations for 1888,		$658,934.20
Special appropriations as above,		$142,523.20
Special appropriations of 1887, unprovided for,		4,298.12
Special appropriations of 1887 and 1888,		$146,821.32
Deduct from this the sum standing to the credit of unappropriated funds,		22,000.00
Amount to be provided for the present year,		$124,821.32

Or, in round numbers, one hundred twenty-five thousand dollars.

Municipal Debt.

The indebtedness of our city at this time, both premanent and temporary, may be stated as follows:

Water bonds, 7s,	$140,000.00
Water bonds, 6s,	320,000.00
Water bonds, 5s,	100,000.00
Water bonds, 4s,	120,000.00
Bridge bonds, 6s,	10,000.00
Sewer bonds, 4s,	65,000.00
Sewer bonds, 3½s,	75,000.00
Improvement bonds, 6s,	223,000.00
Improvement bonds, 4s,	15,000.00
Improvement bonds, 3½s,	140,000.00
Bonds outstanding,	$1,208,000.00

The trust funds are as follows:

Sylvia Ann Howland bequest,	$100,000.00
George O. Crocker bequest,	10,000.00

Library funds other than above,	$4,100.00	
Cemetery funds for care of lots,	7,064.93	
Jonathan Bourne school fund,	1,000.00	$122,164.93
		$1,330,164.93
Temporary debt,		125,000.00
Total debt,		$1,455,164.93

Deduct from the last sum named:

Balance of cash, January 7, 1889,	$32,196.88	
Amounts due from state,	7,230.00	
Taxes collectable,	19,700.00	
Sewer taxes due,	7,347.39	
Sinking funds,	52,897.77	119,372.04
Net debt at this date,		$1,335,792.89

The issue of bonds during the year 1888 was as follows:

Sewer bonds, 4s,		$35,000.00
Improvement bonds, 4s,		15,000.00
Water bonds, 4s,		20,000.00
		$70,000.00
Payment of water bonds, 7s,	$10,000.00	
Payment of water bonds, 6s,	20,000.00	
Payment of bridge bonds, 6s,	5,000.00	
Payment of sewer bonds, 4s,	10,000.00	45,000.00
Increase of bonded debt,		$25,000.00

From the foregoing it may be interesting to note the following facts:

Our city debt at present is	$1,335,792.89
And the debt of January, 1888,	1,257,681.86
Or an increase during the past year of	$78,111.03

The possible debt limit at present is $2\frac{1}{2}$ per cent. on the average tax value of the city for the past three years.

This average value is $32,738,855; 2½ per cent. of this gives as our debt limit $818,471.38.

But as the water bonds are supposed to be no burden on the revenues of the city they are exempted in determining the amount of debt which cannot exceed this limit.

Therefore take from total debt of	$1,335,792.89
The amount of water bonds of	680,000.00
And we have the amount of net city debt,	$655,792.89
From the debt limit of	$818,471.38
Take out city debt,	655,792.89
And we have the amount short of debt limit,	$162,678.49

The law limits the appropriations for city purposes to $12 per $1000 on the tax value of the city, which as before stated is $32,738,855.

This allows for city purposes in 1889 an appropriation of $392,866.26.

The $125,000 of temporary loan, which represents the special appropriations of last year, after crediting to that account all unappropriated balances, must be paid either out of this sum of $392,866.26, or by turning it into permanent debt and issuing bonds.

As it is not possible that all of said sum of $125,000 can properly be treated as permanent debt, the balance, at least, must be paid from the income of this year, which, without any extraordinary demands upon it, is not sufficient to meet the expenses of the city if we are to maintain the present prosperity.

I believe the difficulty lies, not in the fact that expenditures are greatly too large, but that the tax value of the

city which limits our income is too small, and that future relief must be found in materially increasing that value and in a revision of the assessors' books.

SCHOOLS.

The schools of New Bedford have long enjoyed an enviable reputation throughout the country.

This has been gained by the liberal and progressive spirit that has actuated those who have been chosen in the past to administer the affairs of the school department, aided by the generous appropriations of the city; nor has the noble bequest of the late Sylvia Ann Howland been an unimportant factor in bringing about a high state of efficiency and securing exceptional advantages for our schools.

I do not for a moment believe that the citizens of this wealthy and growing city will be content with any but the best schools in the future; but even schools must adapt themselves to the spirit of the times and must move onward or rapidly retrograde; and as a different plan of administration from that of ten years ago is necessary today, so we must look forward to a still different and better plan being required ten years hence, and we must be prepared to take each year the steps necessary to that advance.

The progress of science, the broadening culture of the country, the issues forced upon us by constant immigration, and the statutes of the Commonwealth designed to root out illiteracy, all demand new machinery and greater facilities to enable the school department to meet the requirements of the age, and in determining the policy of the adminis-

tration toward this department I urge these considerations upon your careful attention.

WATER WORKS.

The business-like methods of this department in the conduct of its affairs, and the sound judgment displayed in providing, as far as possible, for the needs of the future as well as the present, should be a source of great satisfaction to our tax-payers.

The annual report of the water board will soon be presented to you in print, and I earnestly recommend its careful consideration.

From that report it will be seen that during the past season 27,055 feet of main distribution pipe has been placed, which is the largest amount extended during any one year since the construction of the works.

A prominent feature of this extension is the pipe which has been laid to Lund's corner, at a cost of $17,327.23, for which the appropriation was $20,000, leaving the handsome balance of $2672.77 unused.

The new leading main has been extended as far south as the corner of Sixth and Union streets, and a supply has been provided for the new Howland Mill Corporation on terms satisfactory to the board.

Extensive repairs have been made, important contracts concluded, for the details of which, as well as for the recommendations of the board, I must refer you to their report.

The works at present are in excellent condition, and, were it not for the constant growth of the city, with ordinary

maintenance would fulfill all requirements for many years to come; but with an increased population come increased demands for which provision must be made.

The average amount consumed each day per service tap, although it remains at about the same figures as for several years past, is high, being about double that of either Fall River, Providence, or Taunton. Those cities have secured a low rate of consumption by the use of the meters and the charge they make per gallon is a true index of the actual value of the water.

While the value of the water to us is the same, by reason of the nominal price a majority of our takers fail to realize it, and this is especially true where large bodies of water are used for manufacturing purposes, for which equally satisfactory arrangements could be made if the true value of the water regulated the price.

The unrestricted use of water has been a privilege which our citizens have eagerly grasped, but the time has come to consider whether it is not, after all, a too expensive luxury, for with a continuance of our prosperity and a corresponding increase in the consumption of water the utmost limit of the conduit will soon be reached and a new structure become an imperative necessity. The cost will be heavy and add largely to the municipal debt.

The present conduit ought to be ample for double our population, but in order to meet all demands either the rate of consumption must be greatly reduced or the expense of an additional conduit be met.

FIRE DEPARTMENT.

It is a pleasure to record that the management of this department calls for only unqualified praise, and should be, as it is, a source of pride to the people of New Bedford.

I believe it to be largely due to the promptness and discipline maintained among its members that we are able to record so marked a freedom from disaster, and enjoy the sense of security produced by low rates of insurance.

Located as we are beyond the reach of aid from the surrounding towns in case of sudden emergency, our security rests wholly upon the efforts of our own department, and our greater dependence upon it makes more imperative the duty of maintaining the highest degree of efficiency.

STREETS.

The responsible management of this department is placed by the ordinances with a committee of the board of aldermen, whose instructions are carried out by a superintendent of streets.

While in the past this system may have been entirely adequate, it is now a question worthy of your consideration whether by reason of an increased population, extended territorial limits, and the large annual expenditure called for, the time has not arrived when a different method of administration should be adopted, by which the expenditures of this department should be made upon a system which should regard the future development of the city in connection with present needs, and thus secure a permanent value for each year's outlay.

Any modification of the present system involves a change in the charter and ordinances, and whether the appointment of a board of public works to take the direction and control of this department would result in greater economy and more satisfactory results is the suggestion submitted for your determination.

POOR DEPARTMENT.

The verdict of the people has certainly justified the change which was inaugurated in the management of this department during the administration of my predecessor. The personal attention given to its affairs by the members of the board, the business methods introduced, which have resulted in showing a balance to its credit at the close of each year, are of themselves a guarantee of the faithful discharge of duty; and I know of no case where any worthy poor has failed to receive satisfactory care and attention.

The gross expenditures in this department for the past year were $40,543.55—$2073.41 less than those of the previous year.

The credits, being amounts received from the state for temporary support of state paupers, burials, &c., from cities and towns for support of their paupers resident in this city, and from other sources, amount to at least $9000, making the net expenditure for the past year $31,543.55—$1456.45 less than the appropriation ($33,000).

POLICE.

The working of this department is perhaps the subject of

more general consideration than that of any other, partly because it is brought into closer contact with the people and because its results are more fully and generally appreciated.

With its successful administration is closely allied the stability of our system of popular government, for in so far as the laws cannot be enforced that system is a failure, based as it is on respect for and obedience to the laws of the land.

I have no reason to believe that our force as a whole is not entirely adequate to perform the required duties to the satisfaction of the people, but I also believe that it can only be accomplished by the enforcement of a discipline which shall teach that neglect or failure to perform a whole duty would justify a charge of incompetency and removal as completely as a direct violation of a given rule.

Only through systematic work of the whole force as distinguished from independent individual efforts can the best results be accomplished, and I would spare no effort to impress upon every member the idea that the uniform of the service is itself a badge of honor, and at the same time inspire the fullest confidence that in the regular performance of duty, as well as in those emergencies which call for the exercise of a prompt judgment, each officer will have the legal and moral support of the administration, as well as the endorsement of the community at large.

As the head of this department by virtue of my office, I recognize the obligation which rests upon me to secure a complete and impartial enforcement of all the laws, and I enter upon my duties with an earnest purpose to shirk no responsibility, but to fully discharge that obligation without fear or favor.

LIQUOR LICENSES.

The system of high license which goes into effect this year for the first time, relieves the board of aldermen from many of the vexatious questions which this subject has yielded in the past; but as it is an experiment, the success or failure of which is looked forward to with the keenest interest by people of every shade of individual opinion, an increased responsibility is put upon us to give it a fair trial and to do all in our power to let the people judge fairly of its merits.

SANITARY.

The growing importance of this department should ensure the most careful attention. The control of the plumbing regulations, which by law is given to the board of health, is a power almost unlimited for good if judiciously exercised, and as no reform can be more far-reaching in protecting the health and happiness of our homes, so is this entitled to your most favorable consideration and the means to make it effective. The results already accomplished by the present board and the devotion to the public interests displayed by the members in carrying out its work, encourage the belief in a continued and successful advance in the treatment of the vexatious, yet important questions with which it is their duty to deal; and as the legislature of last winter has imposed additional duties upon the board which will require a somewhat different method in the conduct of its affairs, I would recommend that such appropriations be made to further their work as the finances of the city will permit.

CEMETERIES.

The efforts of the present able superintendent to restore our cemeteries to a condition which shall reflect credit upon the city, have been quickly appreciated by the people, and this fact justifies the belief that in the management of this department a course which will admit of adding still needed improvements will meet with a hearty endorsement from the public.

The gradual extension of water mains in both cemeteries is of great importance, and also better results could be obtained if the people would more generally take advantage of the system of perpetual care provided by the laws of the Commonwealth.

CONCLUSION.

In looking forward to the management of these important interests we cannot hope to avoid mistakes or unmerited criticism, but with readiness to correct the former and patience to meet the latter we can fairly hope to win from our fellow-citizens a verdict of approval.

For myself I desire to express my deep sense of gratitude to those who have given me their confidence in advance, and to ask of you an indulgent criticism for my short-comings and such support as will give firmness and effect to the legal administration of the affairs of the city.

CITY GOVERNMENT.

1889.

MAYOR.

WALTER CLIFFORD.

ALDERMEN.

Ward 1—LUTHER G. HEWINS, JR.
Ward 2—CHARLES F. SHAW.
Ward 3—BENJAMIN F. BROWNELL.
Ward 4—EDWARD T. PIERCE.
Ward 5—JAMES DELANO.
Ward 6—JOHN WELCH.

CITY CLERK.

DANIEL B. LEONARD.

CITY TREASURER AND COLLECTOR.

JAMES H. HATHAWAY.

CITY AUDITOR.

WILLIAM B. TOPHAM.

CITY MESSENGER.

AUGUSTUS D. PIPER.

COMMON COUNCIL.

PRESIDENT—WILLIAM A. TUCKER.

Ward One.

JOSEPH DAWSON,
JOSEPH C. PATNAUDE,
FRANK B. CARR,
PETER F. SULLIVAN.

Ward Two.

LOUM H. FAUNCE,
WILLIAM HINDLE,
WILLIAM L. G. BROWN,
HARRY C. JENNEY.

Ward Three.

JOHN J. HOWLAND,
JOHN A. GOMLEY,
JAMES FERGUSON,
JOHN H. BARROWS.

Ward Four.

ANDREW G. PIERCE, JR.,
HARRY A. SMITH,
WILLIAM A. TUCKER,
WILLIAM G. KIRSCHBAUM.

Ward Five.

FREDERICK A. BRADFORD,
GILBERT D. KINGMAN,
WILLIAM N. CHURCH, JR.,
ELIOT D. STETSON.

Ward Six.

GEORGE W. PARKER,
WILLIAM H. RANKIN,
SAMUEL HARRISON,
WILLIAM H. MULLEN.

CLERK—WILLIAM A. MACKIE.

STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

Police—The Mayor, Aldermen Delano and Brownell.

Licenses—Aldermen Delano, Pierce, and Shaw.

Laying out, Widening, and Repairing Streets—The Mayor, and Aldermen Delano and Brownell.

Burial Grounds—Aldermen Hewins, Brownell, and Shaw.

Enrollment—Aldermen Pierce, Hewins, and Welch.

Soldiers' Aid—The Mayor, Aldermen Shaw and Pierce.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

Finance—The Mayor, Alderman Pierce, the President of the Common Council, and Councilmen Dawson, Hindle, Ferguson, Bradford, and Parker.

Audit—Aldermen Shaw and Hewins, and Councilmen Church, Barrows, and Stetson.

City Property—Aldermen Delano and Pierce, and Councilmen Faunce, Kingman, and Smith.

Fuel—The Mayor, Alderman Hewins, and Councilmen Barrows, Jenney, and Carr.

Education—Aldermen Hewins and Shaw, and Councilmen Dawson, Rankin, and Kirschbaum.

Fire Department—Aldermen Pierce and Delano, and Councilmen Pierce, Howland, and Jenney.

Roads, Bridges, and Sewers—Aldermen Shaw and Welch, and Councilmen Church, Brown, and Ferguson.

Charities, Almshouse, and the Poor—Aldermen Welch and Brownell, and Councilmen Hindle, Mullen, and Sullivan.

Street Lights—Aldermen Shaw and Brownell, and Councilmen Brown, Gomley, and Kirschbaum.

Printing—Alderman Delano, and Councilmen Stetson and Howland.

Buildings in the Fire District—Aldermen Brownell and Welch, and Councilmen Rankin, Pierce, and Patnaude.

Armories and Military Property—Aldermen Welch and Hewins, and Councilmen Ferguson, Faunce, and Bradford.

Water Works and Water Supply—Aldermen Pierce and Delano, and Councilmen Howland, Pierce, and Church.

Claims—Aldermen Hewins and Welch, and Councilmen Bradford, Stetson, and Kingman.

Ordinances—Aldermen Brownell and Welch, and Councilmen Smith, Parker, and Harrison.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Elections and Returns—Councilmen Kingman, Carr, and Mullen.

Bills in Second Reading—Councilmen Kirschbaum, Patnaude, and Harrison.

Enrolled Ordinances and Resolutions—Councilmen Hindle, Gomley, and Sullivan.

ASSESSORS.

Office, Library Building, Room 6.

DAVID B. WILLCOX, Chairman, 2 years.
CHARLES D. TUELL, 1 year. WILLIAM A. RUSSELL, 3 years.

ASSISTANT ASSESSORS.

Ward 1—JAMES SLATER.
Ward 2—JAMES H. PEASE.
Ward 3—HENRY C. RUSSELL.
Ward 4—MARSHALL T. MILLS.
Ward 5—JOHN D. RODGERS.
Ward 6—FRANK PAUL.

BOARD OF HEALTH.

Office, City Hall Building.

WILLIAM N. SWIFT, Term expires February, 1890.
NATHANIEL HATHAWAY, Term expires February, 1891.
THOMAS W. COOK, Term expires February, 1890.

NATHANIEL HATHAWAY, Chairman.
WILLIAM N. SWIFT, City Physician and Quarantine Physician.
The City Physician is *ex officio* a member of the Board.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

INSPECTOR OF PLUMBING.

LOUIS H. RICHARDSON.

NEW BEDFORD WATER WORKS.

NEW BEDFORD WATER BOARD.

His Honor WALTER CLIFFORD, Mayor, *ex officio* President.
WILLIAM A. TUCKER, President of the Common Council, *ex officio*.
HENRY HOWARD. Term expires June, 1891.
DAVID B. KEMPTON, Term expires June, 1892.
WILLIAM N. CHURCH, Term expires June, 1890.

CLERK.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.
Office, Room 2, Library Building.

SUPERINTENDENT.

ROBERT C. P. COGGESHALL.
Office, City Hall Building.

INSPECTOR.

LOUIS H. RICHARDSON.
Office, Room 2, Library Building.

COMMISSIONERS OF SINKING FUND.

WILLIAM H. MATHEWS, Term expires March, 1892.
ISAAC W. BENJAMIN, Term expires March, 1890.
WILLIAM A. CHURCH, Term expires March, 1891.

ISAAC W. BENJAMIN, Chairman.
JAMES H. HATHAWAY, Secretary and Treasurer.

OVERSEERS OF THE POOR.

ORRICK SMALLEY,	Term expires May 1, 1892.
THOMAS H. KNOWLES,	Term expires May 1, 1890.
WILLIAM H. MATHEWS,	Term expires May 1, 1891.

Secretary—ORRICK SMALLEY.
Assistant—ELLA F. BUCKLIN.
Supt. of Almshouse—PELEG S. MACY.
Physician—CHARLES A. B. PETERSON.

FREE PUBLIC LIBRARY.

TRUSTEES.

Ex officio. Term expires January, 1890.

WALTER CLIFFORD, Mayor of the City.
WILLIAM A. TUCKER, President of the Common Council.
LUTHER G. HEWINS, JR, Alderman, and Chairman of the Committee of the City Council on Education.

Elected by the City Council.

ARTHUR G. GRINNELL,	Term expires April, 1892.
LEONARD B. ELLIS,	Term expires April, 1892.
GEORGE H. DUNBAR,	Term expires April, 1890.
GEORGE HOWLAND, JR.,	Term expires April, 1890.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1891.
MATTHEW C. JULIEN,	Term expires April, 1891.

PRESIDENT OF THE BOARD.

THE MAYOR.

CLERK.

GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, and Messrs. Howland, Tucker, and Julien.
On the Building—Messrs. Tompkins, Hewins, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.

GEORGE H. DUNBAR.

LIBRARIAN.

ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.

WILLIAM L. R. GIFFORD.

ASSISTANTS.

JOSEPHINE A. MERRICK, MARY E. BROWN,
SUSIE H. GAMMONS.

JANITOR.

YORICK W. AMES.

BOARD OF PUBLIC WORKS.

Office, Library Building.

MORGAN ROTCH, Term expires May 1, 1892.
EDMUND WOOD, Term expires May 1, 1891.
DAVID L. PARKER, Term expires May 1, 1890.

MORGAN ROTCH, Chairman.
DANIEL B. LEONARD, Clerk.
ALBERT B. DRAKE, Superintendent.

SUPERINTENDENT OF BRIDGE, AND DRAW TENDER.

JOHN B. NICHOLSON.

CITY SOLICITOR.

LEMUEL LE B. HOLMES.

SUPERINTENDENT OF BURIAL GROUNDS.

WILLIAM SANDERS.

Office at Sanders & Barrows, 67 and 69 William street.

SEALER OF WEIGHTS AND MEASURES.

WILLIAM R. SHERMAN.

INSPECTOR OF BUILDINGS.

FREDERICK MACY.

SUPERINTENDENT OF CITY CLOCK.

JAMES S. KELLEY.

CITY BELL RINGER.

ISAAC BARNES.

CITY LAND SURVEYOR,

ALBERT B. DRAKE.

HARBOR MASTER.

HENRY L. PITMAN.

INSPECTOR OF PETROLEUM AND VINEGAR.

HARRISON DELANO.

Office, No. 17 Middle street.

INSPECTOR OF MILK, PROVISIONS, AND ANIMALS INTENDED FOR SLAUGHTER.

DANIEL C. ASHLEY.

Office, No. 55 North Second street.

REGISTRARS OF VOTERS.

EMANUEL SULLAVOU, Term expires May, 1892.
HERBERT A. BLACKMER, Term expires May, 1890.
THOMAS F. DESMOND, Term expires May, 1891.
DANIEL B. LEONARD, City Clerk, *ex officio*.

Office, Basement City Hall Building.

PRECINCT OFFICERS.

Term of office expires Nov. 1, 1889.

WARD 1, PRECINCT 1.

Warden, WILLIAM J. ARIGAN, D.
Clerk, WARREN P. TOBEY, R.
Inspector, WILLIAM J. HOYLE, D.
" EDGAR F. TRIPP, R.

Duputies.

Warden,
Clerk,
Inspector, JOSEPH SULLIVAN, D.
" JOHN F. KIRK, R.

WARD 1, PRECINCT 2.

Warden, GEORGE P. MACOMBER, R.
Clerk, K. CLIFTON TERRY, D.
Inspector, GEORGE B. BORDEN, R.
" MICHAEL F. KANE, D.

Deputies.

Warden, GEORGE W. HILLMAN, R.
Clerk,
Inspector,
" DANIEL J. SULLIVAN, D.

WARD 2, PRECINCT 3.

Warden, JACOB B. HADLEY, D.
Clerk, MYRON W. BROWNELL, R.
Inspector, GEORGE T. HADLEY, D.
" STEPHEN HAFFORD, JR., R.

Deputies.

Warden, DAVID B. PIERCE, D.
Clerk, CHARLES T. BURGESS, R.
Inspector, SAMUEL C. FRANCE, D.
" THOMAS C. ROBBINS, R.

WARD 2, PRECINCT 4.

Warden, GEORGE K. DAMMON, R.
Clerk, J. FRANKLIN KEENE, D.
Inspector,
" JOSEPH P. CLARK, D.

Deputies.

Warden,
Clerk, ASA L. H. ALLEN, D.
Inspector, SAMUEL R. BROWNELL, R.
" CHARLES L. CHURCH, D.

WARD 3, PRECINCT 5.

Warden, JAMES C. STAFFORD, D.
Clerk, JAMES D. ALLEN, R.
Inspector, HENRY F. HAMMOND, D.
" LYCURGUS H. HOWLAND, R.

Deputies.

Warden, HORATIO G. DEAN, D.
Clerk, CHARLES H. ADAMS, R.
Inspector,
" SAMUEL H. PERRY, R.

WARD 3, PRECINCT 6.

Warden,
Clerk, B. FRANKLIN WORDELL, R.
Inspector, STEPHEN W. McFARLIN, D.
" BENJAMIN F. JENNEY, R.

Deputies.

Warden,
Clerk,
Inspector,
"

WARD 4, PRECINCT 7.

Warden, WILLIAM B. TOPHAM, R.
Clerk, WALTER R. MYRICK, D.
Inspector, AUGUSTUS D. PIPER, R.
" FREDERICK A. BROWNELL, D.

Deputies.

Warden, JAMES B. RUSSELL, R.
Clerk, GEORGE S. HOYT, D.
Inspector, CHARLES N. ALLEN, R.
" GEORGE P. GIFFORD, D.

WARD 5, PRECINCT 8.

Warden, WILLIAM H. SHERMAN, D.
Clerk, JOHN K. McAFEE, R.
Inspector, GEORGE P. RICHARDSON, D.
" ARTHUR C. SPOONER, R.

Deputies.

Warden,
Clerk,
Inspector, ISAAC C. SHERMAN, D.
" GEORGE H. H. ALLEN, R.

WARD 5, PRECINCT 9.

Warden, HENRY S. SWAIN, R.
Clerk, HENRY A. GRAY, D.
Inspector, STANDISH BOURNE, R.
" THOMAS R. ALMY, D.

Deputies.

Warden, ROBERT R. TOPHAM, R.
Clerk, DAVID H. MORRISSEY, D.
Inspector, DAVID M. PIPER, R.
"

WARD 6, PRECINCT 10.

Warden, CHARLES F. BRIGGS, R.
Clerk, LEANDER A. WILLISTON, D.
Inspector, GEORGE F. CURRY, R.
" FRANK CROACHER, D.

Deputies.

Warden, HERBERT S. PIERCE, R.
Clerk, FRANK G. TABER, D.
Inspector, GEORGE F. SAWIN, R.
" THOMAS J. MEANEY, D.

WARD 6, PRECINCT 11.

Warden, HERBERT B. GARDNER, R.
Clerk, N. HERBERT GREENE, D.
Inspector, WILLIAM W. BONNEY, R.
" E. EDWARD ENOS, D.

Deputies.

Warden,
Clerk, GIDEON D. POPPLE, D.
Inspector, MARSHALL S. GREENE, R.
" WILLIAM N. NELSON, D.

VOTING PRECINCTS.

WARD ONE.

Precinct 1. All that portion of said ward lying northerly of a line drawn through the centre of Cedar Grove, Purchase, Linden, Ashland, and Durfee streets, thence continuing in a straight line to the boundary line between the town of Dartmouth and the city of New Bedford.

Voting place, Ward room, corner of Weld and Bowditch streets.

Precinct 2. All that portion of said ward lying southerly of the aforesaid division line.

Voting place, Howland Chapel, 588 Purchase street.

WARD TWO.

Precinct 3. All that portion of said ward lying east of a line drawn through the centre of Thomas, Sycamore, and County streets, to a point at the intersection of a line formed by the extension of a line through the centre of Franklin street.

Voting place, Ward room on Willis street.

Precinct 4. All that portion of said ward lying west of the aforesaid division line.

Voting place, carpenter shop of Loum H. Faunce, rear of 57 Parker street.

WARD THREE.

Precinct 5. All that portion of said ward lying east of a line drawn through the centre of Summer street, from the centre of Middle to the centre of Maxfield street.

Voting place, Ward room, Kempton street, near County.

Precinct 6. All that portion of said ward lying west of aforesaid division line.

Voting place, police station, Mill street, near Ash.

WARD FOUR.

Precinct 7. The entire ward, including the islands known and called Pope's and Fish island.

Voting place, City Hall.

WARD FIVE.

Precinct 8. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from the centre of Wing street to the centre of Bedford street, thence through Bedford and South Sixth streets to the centre of Spring street.

Voting place, Ward room on Fourth street, near School.

Precinct 9. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, No. 4 engine house, Bedford street.

WARD SIX.

Precinct 10. All that portion of said ward lying easterly of a line drawn through the centre of Fifth street, from its intersection with the centre of Wing street, thence through Grinnell, Fourth, and Rivet streets, Acushnet avenue, Division, and Water streets, to and along the centre of French avenue south to tide water.

Voting place, store southwest corner of South and South Water streets.

Precinct 11. All that portion of said ward lying westerly of the aforesaid division line.

Voting place, Ward room on Sherman street.

FIRE DEPARTMENT.

CHIEF ENGINEER.

FREDERICK MACY, Term expires January, 1893.

Office, City Hall Building.

ASSISTANT ENGINEERS.

First—LORING T. PARLOW,	Term expires January, 1891.
Second—PLINY B. SHERMAN,	Term expires January, 1890.
Third—AUGUSTUS A. WOOD,	Term expires January, 1893.
Fourth—HUGH McDONALD,	Term expires January, 1892.

CLERK OF BOARD OF ENGINEERS.

LUTHER G. HEWINS, JR.

POLICE DEPARTMENT.

CHIEF.

DANIEL A. BUTLER,	57 Maxfield street.

CAPTAINS.

LUTHER M. DAYTON,	195 Summer street.
JAMES L. WILBER,	73 State street.

LIEUTENANTS.

LEMUEL D. ADAMS,	54 Fourth street.
TIMOTHY C. ALLEN,	Cor. Grinnell and Orchard streets.
SETH E. BRYANT,	Mt. Pleasant, cor. of Durfee street.
FREDERICK HUSSEY,	46 State street.
ELLERY PEIRCE,	1 Court street.
THOMAS J. TAFT,	490 Acushnet avenue.

HEALTH INSPECTOR.

WILLIAM E. MACOMBER,	15 Sherman street.

INSPECTORS.

FRANKLIN L. HATHAWAY,	208 County street.
JOHN C. PARKER,	119 Austin street.

PATROLMEN.

EDGAR W. ALLEN,	Parker street, west of Shawmut avenue.
JAMES W. ARNETT,	75 Willis street.
JOHN W. BRADY,	314 County street.
MILTON A. BROWNELL,	133 Fourth street.
PATRICK CANNAVAN,	North Chancery, near Parker street.
WILLIAM J. CLARKE,	North Chancery, cor. Parker street.
THOMAS W. COMSTOCK,	75 Campbell street.
JOSEPH H. DALEY,	432 Pleasant street.
JAMES DOWDEN,	35 Mill street.
PETER DUMEC,	314 South Water street.
WASHINGTON A. ELDRIDGE,	421 Acushnet avenue.
THOMAS FAY,	Blackmer, near South First street.

GEORGE E. GENDRON,	592 Purchase street.
JOHN HERNON,	96 South Second street.
THOMAS D. HOWLAND,	103 Maxfield street.
DANIEL J. HUMPHREY,	215 Fourth street.
ARTHUR H. JONES,	Mt. Pleasant, cor. of Durfee street.
JOHN M. JONES,	48 Cottage street.
PATRICK KENNEDY,	100 Bedford street.
ALLEN L. LEE,	5 Spruce street.
JOSEPH MATHER,	37 Seventh street.
CHARLES L. McBAY,	61 Borden street.
JOHN McGLYNN,	364 Pleasant street.
JAMES MITCHELL,	West Maxfield, cor. of Park street.
LEWIS S. MOORE, JR.,	Hillman, west of Florence street.
ROBERT MOYNAN,	121 Cedar street.
CORNELIUS J. MURPHY,	16 Cannon street.
GEORGE W. PAIGE,	1 Court street.
CRAWFORD S. PIERCE,	9 Bedford street.
H. WARREN RHODES,	514 Purchase street.
JOHN C. ROOKS,	50 Washington street.
JOHN SAVAGE,	125 Allen street.
JOSEPH DE L. SISSON,	11 Elm street.
HENRY STEVENS,	78 Bedford street.
TIMOTHY SULLIVAN,	64 Austin street.
CHARLES H. TABER,	626 Purchase street.
JOHN TELFORD,	9 Madison street.
GEORGE VOGEL,	3 Lindsey street.
JOHN H. WILLIAMS,	27 Chancery street.
THOMAS H. WILSON,	247 Middle street.
JOSEPH B. WING,	478 Purchase street.
JAMES A. WIXON,	Wing building, Purchase street.

DAY HOUSE KEEPERS.

HENRY W. BUMPUS,	78 Walden street.
DAVID G. KIRBY,	80 Purchase street.
WILLIAM H. MITCHELL,	6 Maxfield street.
ELISHA E. RUSSELL,	285 Acushnet avenue.

CLERK OF POLICE DEPARTMENT.

HENRY N. WEST.

POLICE MATRON.

MARGARET S. BULLARD.

CONSTABLES.

THE MEMBERS OF THE POLICE FORCE, AND SAMUEL C. PERRY.

KEEPER OF THE LOCKUP.

DANIEL A. BUTLER.

PROBATION OFFICER.

ISAAC H. COE.

SPECIAL POLICE OFFICERS.

Allen, Lewis G.,
Allen, William H.,
Austin, John H. C.,
Barber, John R.,
Barker, Robert T.,
Barnes, Isaac,
Bartel, Leopold,
Bennett, Jeremiah H.,
Bently, Frank T.,
Bliss, Frederick P.,
Bliss, William H.,
Booth, Benjamin T.,
Borden, Prince S.,
Brown, William L. G.,
Buckley, Alfred R.,
Burgess, Stephen,
Burke, Michael I.,
Burke, William,
Butts, Henry R., Jr.,
Butts, Squire W.,
Carr, James E.,
Carson, C. J. R.,
Chase, Albert A.,
Childs, Cyril M.,
Clark, William,
Clarkson, Nicholas J.,
Clynes, Thomas,
Collins, John,
Conklin, Abraham,
Corish John,
Corley, Maurice C.,
Cornell, Charles F.,
Cornell, Sidney I.,
Cornell, Stephen,
Crafts, James,
Cronin, Cornelius,
Cushman, Frederick,
Dammon, George K.,
Davis, Otis A.,
Delano, Harrison,
Devine, Patrick,
Devoll, George H.,
Donaghy, Joseph,
Duckworth, William A.,
Dugan, Edward,
Durfey, Richard T.,
Eldridge, Samuel T.,
Engeland, George.
Etchell, Edward,
Ferguson, William,
Finn, Michael,
Fitzgerald, James,
Flavin, Maurice F.,
Francis, Frank W.,
Fuller, Jonathan A.,
Geddis, Henry S.,
Gibbs, Preston H.,
Gibbs, William H. H.,
Gifford, John,
Glennon, Thomas F.,
Grant, Lafayette,
Greene, Marshall S.,
Harrington, J., Clark st.,
Hicks, William,
Hillman, George W.,
Hines, Henry S.,
Holden, George,
Holloway, James T.,
Holmes, Ezra,
Holmes, John J.,
Howard, Henry,
Howland, Joseph B.,
Howland, William G.,
Ivey, James A.,
Jacob, Julien,
Jay, James A.,
Jenifer, John H.,
Jenney, Ezra T.,
Johnson, Oscar,
Johnson, W. H., Smith street,
Jones, Isaac M.,
Jordan, William,
Joseph, John,
Karcher, Frederick, Sr.,
Kelley, Hiram C.,
Kennedy, Thomas,
Kent, James D. T.,
King, Joseph T.,
Lapham, George W.,
Law, Peter G.,
Lawrence, Cyrus T.,
Leary, Dennis, Jr.,
Lincoln, Ellery C.,
Lincoln, John,
Little, Frank,
Little, John E.,
Lumbert John,
Luther, Joseph P.,
McAuliffe, John J.,
McCullough, Robert,
McDermot, Michael,
Macomber, H. M.,
Marr, William J.,
Marshall, Charles A.,
Martin, Henry T.,
Maxfield, Russell,
Mehan, John,
Miller, George,
Miskell, John,
Morgan, Elias T.,
Morrison, Thomas,
Netcher, George F.,
Nicholson, John B.,
Oliver, John,
Omey, Joseph C.,
Paine, Nathan L.,

Palmer, Robert,
Parker, Charles W,
Partington, William,
Peckham, Samuel W.,
Peed, Thomas J.,
Peirce, Anthony, Jr.,
Perry, Samuel C.,
Phillips, Henry T.,
Pierce, Thomas H.,
Pinelle, Joseph,
Pinkham, George W.,
Piper, Augustus D.,
Pitman, Henry L.,
Place, William J.,
Pollock, John H.,
Quinn, Joseph,
Read, George P.,
Read, Richard A.,
Remington, John G.,
Reynolds, James R.,
Ritchie, David,
Robbins, Charles H.,
Russell, George W. G.,
Russell, Henry C.,
Russell, James B.,
Sadler, William G.,
Salmon, John,
Sampson, Warren W.,
Saxon, James H.,
Shea, Michael J.,
Shields, Charles M.,
Small, David S.,
Smith, Henry,
Smith, Henry H.,
Spicer, Robert H.,
Spooner, Joseph W.,
Staples, Elias,
Stevens, Michael,
Stopford, James I.,
Sullivan, John D.,
Taber, Charles H.,
Taber, Christopher C.,
Taber, Gideon L.,
Taber, William H.,
Taft, Daniel F.,
Tallman, Edward S.,
Taylor, Theodore,
Taylor, William A.,
Thomas, Edward, Jr.,
Thompson, Thomas,
Thomson, John H.,
Tinkham, John S.,
Tinkham, Otis,
Townley, Richard,
Tripp, Benjamin E.,
Tripp, Holder R.,
Tripp, Le Roy G.,
Tuell, Charles D.,
Underwood, John A.,
Underwood, Willis C.,
Warfield, James H.,
Watts, William H. C.,
Weeden, Charles H. L.,
Wilbur, Allen R.,
Wiley, James,
Willis, Rufus H.,
Williston, Hiram L.,
Wilson, John,
Wood, Charles N.,
Wood, James A.

MEMBERS OF THE NEW BEDFORD PROTECTING SOCIEY.

(Special Police Officers to serve at fires.)

Akin, Francis T.,
Allen, George H. H.,
Allen, Gideon, Jr.,
Allen, Gilbert,
Boardman, Thomas,
Bourne, Standish,
Bly, O. Frank,
Briggs, George E.,
Case, Charles A.,
Coggeshall, R. C. P.,
Denison, Henry C.,
Denison, John H.,
Dews, Edwin,
Dias, Joseph,
Dunham, Ernest A.,
Dunham, Fred C.,
Field, Walter F.,
Fiske, Willis W.,
Gardner, Edward R.,
Gifford, Frank H.,
Grinnell, Edmund,
Hadley, A. W.,
Hammond, Henry F.,
Handy, Jonathan,
Haskell, Charles M.,
Hillman, Charles B.,
Howard, Henry,
Howland, John J.,
Kelley, Charles S.,
Kingman, G. D.,
Knowles, Thomas H.,
Knowles, William H.,
Lawton, Charles H.,
Lewis, Edgar R.,
Lowe, John H.,
Manchester, P. F.,
Maxfield, Edmund F.,
Nye, Willard, Jr.,
Paine, Charles L.,
Parker, James N.,
Parlow, George F.,
Perry, Arthur E.,
Pierce, Edward T.,
Pierce, Otis N.,
Pitman, William H.,
Plummer, Charles W.,
Potter, William F.,
Read, William F.,
Robbins, Arthur E.,
Robinson, William A.,
Rotch, Morgan,

Richardson, Louis H.,
Russell, William A.,
Sanford, Gardner T.,
Shaw, Edward S.,
Smith, William T.,
Snow, Robert,
Swift, Frederick,
Swift, Leander H.,
Swift, R. W.,
Taber, Charles M.,
Taylor, Henry W.,
Taylor, William T.,
Terry, Francis C.,
Tillinghast, Joseph,
Vincent, Mark T.,
Washburn, F. A.,
West, William R.,
Wilbor, Alfred G.,
Wilde, Edmond L.,
Willis, William H.,
Wood, Edmund,
Wood, Horace,
Wood, Thomas F.,
Woodman, William O.

MEASURERS OF WOOD AND BARK.

Allen, Abram A.,
Chace, Ira M.,
Comey, Charles M.,
Cobb, George A.,
Dammon, Samuel,
Davis, John,
Flood, James R.,
Holmes, Albert W.,
Howland, Abram H.,
Leavitt, Clark,
Moulton, Frederick F.,
Notter, John,
Pickens, George,
Potter, Edwin L.,
Reed, Benjamin H.,
Russell, William H.,
Rodman, Frank P.,
Smith, John,
Sylvia, Joseph L., Jr.,
Taber, Edward C.,
Weeks, Henry T.,
Wordell, Wilson I.

SURVEYORS OF LUMBER.

Beetle, John H.,
Briggs, Charles,
Carpenter, George,
Chase, Abram,
Croacher, Thomas W.,
Hayes, Lemuel W.,
Howland, John W.,
Jenney, Leonard,
Randall, Charles G.,
Russell, William H.,
Sowle, Nathaniel P.,
Terry, C. A. V.

MEASURERS OF GRAIN.

Bowman, Seth G.,
Chace, Ira M.,
Comey, Charles M.,
Horton, Charles M.,
Rodman, Frank P.
Taber, Gideon L.

WEIGHERS OF COAL.

Agard, Charles W.,
Brownell, Charles E.,
Chace, Ira M.,
Comey, Charles M.,
Cornell, Sidney J.,
Corson, James A.,
Day, Thomas,
Gifford, Nathaniel W.,
Hathaway, Franklin,
Hathaway, John G.,
Howard, Henry,
Howland, John J.,
Howland, Samuel A.,
Johnson, Benjamin W.
Lumbard, Joseph W.,
Moore, James E.,
Negus, A. S.,
Neal, John A.,
Parker, Frank C.,
Paine, Nathan L.,
Pierce, Edward E.,
Reed, Edmund A.,
Rodman, Frank P.,
Sherman, Philip S.,
Shurtleff, Lewis T.,
Simmons, Eber C.,
Southwick, William H.,
Stanton, James E., Jr.,
Stevens, Dennis L.,
Sylvia, Joseph L., Jr.,
Taber, Robert B.,
Tripp, John E.,
Wilbur, A. R.,
Wilson, Wallace B.,
Wordell, Wilson I.

CITY WEIGHERS.

Agard, Charles W.,
Akin, John E.,
Ashley, Clara M.,
Ashley, Roland R.,
Barritto, Joseph,
Barrows, John H.,
Brownell, Charles E.,
Browning, Mrs. Clark,
Brownson, Leonard,
Card, Frederick W.,
Chace, Ira M.,
Chadwick, David,
Chase, Albert A.,
Clare, William H.,
Cobb, George A.,
Comey, Charles M.,
Congdon, William A.,
Cornell, Sidney J.,
Corson, James A.,
Craft, James,
Davis, James, 2d,
Day, Thomas,
Delano, Harrison,
Driscoll, Daniel E.,
Donovan, John,
Duff, John,
Field, Edward H.,
Foster, Walter H.,
Gammons, Edgar H.,
Gibbs, Edward J.,
Gibbs, William H. H.,
Gifford, Charles H.,
Gifford, James A.,
Gifford, Nathaniel W.,
Gifford, Richmond A.,
Gifford, Robert B.,
Grant, Lafayette,
Greene, Nathaniel H.,
Haskell, Frank C.,
Hassett, James,
Hathaway, B. F., Jr.,
Hathaway, Franklin,
Hathaway, James L.,
Hathaway, John G.,
Horton, Charles M.,
Howard, Charles H.,
Howland, Edward S.,
Howland, Samuel A.,
Jenney, Ezra T.,
Jennings, George L.,
Johnson, Benjamin W.,
Kilpatrick, Edward F.,
Lee, John A.,
Lewis, Henry S.,
Lumbard, Joseph W.,
Macy, Frederick B.,
Macy, Peleg S.,
Manchester, Caleb,
Moore, James E.,
Murphy, James,
Murphy, J. L.,
Murphy, John,
Neal, John A.,
Negus, A. S.,
Norris, Thomas B.,
O'Conner, Cornelius,
O'Malley, John,
Parker, Frank C.,
Paul, George H.,
Peirce, H. M.,
Peirce, Edward E.,
Perry, John S.,
Potter, Edwin L.,
Powers, James,
Reed, Benjamin H.,
Reed, Edmund A.,
Rich, Walter I.,
Rodman, Frank P.,
Sherman, Philip S.,
Simmons, Eber C.,
Southwick, William H.,
Spooner, Charles S.,
Stanton, James E., Jr.,
Stratton, Charles S.,
Sullivan, Jeremiah,
Taber, Robert B.,
Taft, Daniel F.,
Tillinghast, Edward L.,
Tobey, Franklin, Jr.,
Tripp, John E.,
Vierick, Louis A.,
Wade, Waldo,
Weeks, Henry T.,
Wilbur, Allen R.,
Wilson, Wallace B.,
Wood, Henry L.,
Wordell, Wilson I.

WEIGHER OF BOILERS AND HEAVY MACHINERY.

Sisson, William H. H.

FENCE VIEWERS.

Cobb, George A., Russell, John A.

POUND KEEPERS.

Manchester, John B., Scott, Henry.

FIELD DRIVERS.

The Police, and Frederick Cushman, William H. Johnson (Smith st.), John B. Manchester.

1889—CITY DOCUMENT NO. 3.

CITY OF NEW BEDFORD, MASS.

NINETEENTH ANNUAL REPORT

OF THE

NEW BEDFORD WATER BOARD,

TO THE

CITY COUNCIL,

CONTAINING:

I.

The Report of the New Bedford Water Board for the year 1888.

II.

The Report of the Water Registrar.

III.

The Report of the Superintendent.

DECEMBER 31, 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

New Bedford Water Board.

1889.

WALTER CLIFFORD,

Mayor of the City.

WILLIAM A. TUCKER,

President of the Common Council.

DAVID B. KEMPTON.

WILLIAM N. CHURCH.

HENRY HOWARD.

CLERK OF THE WATER BOARD, AND SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

WATER REGISTRAR.

JAMES H. HATHAWAY.

FOREMAN.

FRANK M. ASHLEY.

PUMPING STATION.

ADONIRAM S. NEGUS, *Pumping Engineer.*

REPORT.

CITY OF NEW BEDFORD,
OFFICE OF THE NEW BEDFORD WATER BOARD,
December 31, 1888.

To the City Council of the City of New Bedford:

GENTLEMEN,—In accordance with the provisions of the Water Ordinance, the Water Board respectfully submit their nineteenth annual Report. Accompanying it may be found the Reports of the Superintendent, City Treasurer, and Water Registrar.

To these Reports you are referred for the detailed account of the operations of the works and their financial condition.

The following is an abstract from the statement of James H. Hathaway, City Treasurer:

Balance, December 1st, 1887,	$23,430.65
Receipts for the year, all sources,	87,303.86
	$110,734.51

The charges have been as follows:

Expenditures for management and repairs,	$31,248.84
Expenditures for extensions,	56,860.18
	$88,109.02
Which leaves a balance to the credit of the works, on the books of the City Treasurer, December 1st, 1888,	$22,625.49

The actual outlay for the construction of these works, December 1st, 1888, exclusive of debt, interest, and management and repair account, is $1,355,320.94.

The rapid growth of our city calls for long lines of extensions to the distributing mains. These petitions are received from almost every direction, some of them from quite unexpected quarters. Thus, while the system is now in excellent condition, yet the work of increasing the capacity must continue each year in order to properly keep pace with the demand.

Forty-three petitions for the extension of main pipe have been granted.

Twenty-seven thousand fifty-five feet of main distribution pipe has been laid, and 1586 feet of that previously laid removed. This is the largest extension made during any one year since the construction of the works. The total mileage of the distributing mains is 59.2022 miles.

The extension of the main in Acushnet avenue northerly to Lund's corner provides the much-needed fire protection to the residents along that avenue, which they have long sought. It is gratifying to be able to state that your appropriation of $20,000 for the accomplishment of this work was more than sufficient, as the cost is stated to be $17,327.23.

The new leading main has been extended from its former terminus in Pleasant street, opposite the Library Building, south through Pleasant, William, and Sixth streets, to Union street. It is proposed to continue this main as far south as Bedford street during the coming year.

A long line of pipe has been placed for the supply of the Howland Mill district. On this, as well as on all petitions received during the year, the usual guarantee that a rate shall be paid equal in amount to six per cent. of the cost to the city, has been exacted.

Advantage of the favorable state of the market was taken

a few weeks since by contracting for cast iron pipe and special castings needed for the coming year. The lowest proposal was received from the McNeal Pipe and Foundry Company, of Burlington, N. J., and the contract was awarded to them on the seventeenth day of the present month. Their bid was $26.69 per gross ton for the straight pipe and special castings 2½ cents per pound. The price includes delivery, which is to be made during the month of April next.

Two hundred ninety-one service supplies have been laid during the past season. Total number now in use is 5785.

Extensive repairs have been made to both the receiving reservoir and the distributing reservoir.

Last year a conveyance was made to the city of a lot next north of the workshop on Water street and this year a deed of property at the corner of Water street and Ark lane was obtained. The consideration paid was $900 for the first lot and $1000 for the last named. The land thus obtained will be used in the future for the storage of pipe.

The increase of consumption still continues to keep pace with the increase of population. The rate per tap, which is much larger than it should be, continues at about the same figures as heretofore. There ought not to be any good reason why New Bedford should pass double the amount of water daily, upon the average, through each service supply than does her sister cities, Providence, Taunton, and Fall River. But it must be remembered that the takers in those cities have been educated by the meter system to comprehend the true value of each gallon of water which they receive. In our own city, while the water itself has the same intrinsic value, it is sold at such a figure as to lead the takers to believe that in quantity its worth is really very slight. This statement applies equally as well to metered water as to that sold under faucet rates. The charges imposed by us are such that the consumer feels that he can afford to use even metered water with no

restraint whatever. Especially is this true in connection with manufacturing purposes, where large amounts of metered water are used in preference to pumping salt water close at hand, and which would answer all requirements just as well and would certainly leave the department in a much better condition. Our industries are rapidly multiplying, and all these require and expect ample provision to be made for their daily supply. But it must be remembered that there is a limit, and we respectfully call your attention to the fact that we are fast approaching the extreme of conduit capacity and that an additional structure will certainly be a necessity a few years hence, should our prosperity continue. It will call for a very heavy expenditure, and for this reason, if for no other, its construction should be delayed until the demands of the consumers cannot otherwise be met. Some measures ought to be taken to compel the takers to use with less freedom, —something that will convince them that the water really has a value. And we know no better way than to sell it at its own value. The cost of the construction of an additional conduit will certainly be proof absolute to our tax payers that the unrestricted use of water is indeed a most expensive luxury.

We call your attention to this matter at this time that you may not be unmindful, should we have occasion to address you concerning it in the near future.

MORGAN ROTCH,
STEPHEN D. PEIRCE,
DAVID B. KEMPTON,
WILLIAM N. CHURCH,
HENRY HOWARD,
} New Bedford Water Board.

Report of the Water Registrar.

City of New Bedford,
Water Registrar's Office,
December 1, 1888.

To the New Bedford Water Board:

Gentlemen,—I herewith present to you the annual statement of my accounts as Water Registrar for the year ending at this date.

The several accounts are arranged in the following order, viz.:

1. The receipts for the year from all sources.

2. A classified statement of disbursements for the year.

3. A recapitulation of the outlay for the year, showing the net expenditures under each head.

4. A general recapitulation of the outlay from the commencement of the works to this date.

5. The sources of income applied to construction account.

6. Water debt and payments made on account of the same.

CREDITS TO THE NEW BEDFORD WATER WORKS.

Balance, December 1, 1887,			$23,430.65
Receipts for water:			
Rates,	$49,535.54		
Appropriations,	12,000.00	$61,535.54	
Receipts on account of services:			
Services,	$4,993.09		
Meters,	59.00		
Fines,	18.00	5,070.09	
Received for mains:			
Main pipe sold,		368.23	
Receipts from other sources:			
Sale of hay,	$132.00		
Sale of horse,	72.00		
Mercury Publishing Co., 2d Audit,	14.00		
Rents,	112.00	330.00	67,303.86
			$90,734.51
Received from sale of bonds,			20,000.00
Receipts, including balance, December 1, 1887,			$110,734.51
Expenditures for the year ending December 1, 1888,			88,109.02
Balance, cash in treasury, December 1, 1888,			$22,625.49

EXPENDITURES FOR 1888.

MANAGEMENT AND REPAIRS.

Engineering and superintendence,	$3,564.99	
Water Registrar, inspection, and clerk hire,	2,549.76	$6,114.75
Pumping expenses:		
Engineer, fireman, and watchman,	$4,171.07	
Fuel for pumping engines,	5,303.21	
Oil, waste, packing, gas, &c.,	352.97	
Other supplies,	114.30	
Repairs of engines,	502.10	
Repairs of boilers,	253.77	
Incidentals,	51.35	10,748.77
Engine house and lot:		
Maintenance,		524.95

Mains:			
Main pipe, gates, hydrants, &c.,	$813.74		
Maintenance,	54.30	$868.04	
Services:			
Plumbing,	8437.50		
Labor and stock,	233.35		
New stop boxes and clean taps,	200.67	871.52	
Fountains and meters,		174.00	
Reservoirs and conduit:			
Repairs to receiving and distributing reservoir and stand pipe,	$865.55		
Repairs to storing reservoir, dam, and conduit,	400.45	1,266.00	
Special repairs:			
Repairs to Ansel White homestead,	$60.80		
Repairs to distributing reservoir,	2,338.11		
Repairs to receiving reservoir,	3,095.28	5,494.19	
Water street work shop and pipe yard,		1,600.56	
Incidentals,		2,986.06	
Sinking funds,		600.00	$31,248.84

EXTENSIONS.

Mains:			
Main pipe and special castings,	$28,690.51		
Labor laying mains,	10,382.01		
Lead, carting, &c.,	3,147.39		
Other supplies,	935.59		
Stop gates, hydrants, &c.,	4,462.46		
Unloading pipe and wharfage,	280.87	$47,898.83	
Services:			
Service pipe, lead and iron,	$2,446.33		
Taps, stops, boxes, and other expenses,	1,319.84		
Labor laying services,	1,877.18		
Plumbing,	297.50	5,940.85	
Fountains and meters,		1,286.16	
Connection with Little Quittacas,		1,734.34	56,860.18
Total expenditures for the year,			$88,109.02

NET EXPENDITURES UNDER EACH HEAD.

MANAGEMENT AND REPAIRS.

Outlay as above stated,		$30,648.84
Deduct from this amount:		
Hay sold,	$132.00	
Horse sold,	72.00	
Mercury Publishing Co.,	14.00	
Fines,	18.00	
Rents,	112.00	348.00
		$30,300.84

EXTENSIONS.

Pipe, labor, and expense laying mains,	$43,155.50	
Deduct from this amount:		
Pipe sold,	368.23	
	$42,787.27	
Wharfage and expense,	280.87	
	$43,068.14	

SERVICES.

Outlay as above stated,	$5,940.85	
Less amount received from takers,	4,993.09	947.76

HYDRANTS, FOUNTAINS, METERS, &C.

Outlay as above, viz.:			
Stop gates, hydrants, &c.,	$4,462.46		
Fountains and meters,	1,286.16		
	$5,748.62		
Deduct from this sum:			
Meters sold,	59.00	5,689.62	49,705.52

SPECIAL.

Extension to Little Quittacas,	$1,734.34	
Sinking funds,	600.00	2,334.34
Net expenditures for 1888,		$82,340.70

CONDENSED STATEMENT.

DEBITS.

Net expenditures for the year,	$82,340.70	
Balance unexpended,	22,625.49	$104,966.19

CREDITS.

Balance, December 1, 1887,	$23,430.65	
Received for water,	61,535.54	
Received from sale of bonds,	20,000.00	$104,966.19

GENERAL SUMMARY.

The whole outlay upon the works to this date has been as follows:

Conduit,	$212,307.89
Dam,	18,845.24
Distributing reservoir,	73,740.62
Distribution,	656,686.30
Engine house and lot,	91,228.40
Engines and foundations,	88,169.46
Storing reservoir,	53,496.06
Receiving reservoir,	33,360.27
Pump well and culvert,	16,561.41
White homestead,	4,000.00
Peckham road,	512.00
Preliminary,	2,605.34
Engineering,	23,511.88
Salaries,	9,225.00
Incidentals,	8,124.05
Management and repairs,	347,189.62
Fountains, hydrants, meters, &c.,	18,917.89
Work shop, North Water street,	6,498.75
Land, State street,	350.00
New force main,	23,958.30
Inspection,	5,570.39
Temporary connection with Little Quittacas,	1,503.81
Little Quittacas extension, purchase of land, &c.,	6,147.88
	$1,702,510.56
Payments of interest on debt,	48,388.14
Water bonds paid, 6 per cent.,	20,000.00
Sinking funds,	600.00
	$1,771,498.70
Balance, December 1, 1888,	22,625.49
	$1,794,124.19

The receipts from the commencement of the works to this date have been as follows, viz.:

Appropriations by City Council,		$1,038,000.00
Received for water,		756,124.19
		$1,794,124.19
Deduct amount above stated,		1,771,498.70
Balance at this date,		$22,625.49
Outlay as above,		$1,771,498.70
Deduct from outlay:		
Amount paid for management and repairs,	$347,189.62	
Interest paid,	48,388.14	
Bonds paid,	20,000.00	
Sinking funds,	600.00	416,177.76
Actual cost of works to date,		$1,355,320.94
Total receipts for water,		$756,124.19
Deduct from this:		
Amount paid for maintenance, debt, interest, and sinking funds,		416,177.76
Water receipts applied to construction,		$339,946.43
Receipts for water in 1888,		$61,535.54
Receipts for water in 1887,		57,608.43
Increase for 1888,		$3,927.11

The funds for the construction of the water works have been derived from the following sources:

Investment of Sylvia Ann Howland educational bequest,	$100,000.00
Sylvia Ann Howland water bequest,	100,000.00
Receipts from sale of bonds,	815,000.00
Net receipts for water applied to this account,	339,946.43
Appropriations for construction in 1885,	23,000.00
	$1,377,946.43
Deduct balance, December 1, 1888,	22,625.49
Net cost of works as above stated,	$1,355,320.94

The water debt at this time is as follows:

Water bonds, 7 per cent.,	$140,000.00
" " 6 " "	320,000.00
" " 5 " "	100,000.00
" " 4 " "	120,000.00
Sylvia Ann Howland educational bequest, 6 per cent.,	100,000.00
Total debt,	$780,000.00

The appropriations by the City Council for 1888 were as follows:

Water bonds, 6 per cent.,	$20,000.00
Water bonds, 7 per cent.,	10,000.00
Interest on bonds,	40,300.00
Interest on trust funds,	6,000.00
Total amount appropriated,	$76,300.00
Net expenditures by Water Board,	82,340.70
Actual amount expended,	$158,640.70

Number of services put in during the year,	291
Number of persons using water December 1, 1887,	30,080
Since added,	1,746
	31,826

This includes those using water at dwellings only.

From the report furnished me by the Inspector, I gather the following facts in relation to his work the past year:

There were 586 leaks stopped, 1122 services turned off and on, a large number of which were for repairs, 18 services turned off for non-payment of dues only, and 31 extra families using water and 165 extra fixtures found in use not before reported, on which the rates amounted to $473.00. The monthly reading of meters in use, which was adopted the past year, has largely increased the labors of this department.

Respectfully submitted.

JAMES H. HATHAWAY,

Treasurer and Water Registrar.

Report of Superintendent.

New Bedford Water Works,
Superintendent's Office,
December 1, 1888.

To the New Bedford Water Board:

Gentlemen,— The Superintendent's nineteenth annual Report of the operations of this department for the year ending December 1st, 1888, is herewith respectfuly submitted.

The excessive rainfall of the past year has kept ponds and springs well filled, and, in consequence, there has been an abundant supply of water throughout the entire season. At the approach of midsummer the level of the storing reservoir commenced to settle in very much the same manner as heretofore. This was checked by permitting a sufficient amount to flow from Little Quittacas pond, which was allowed to continue until the heavy rainfall of September commenced, when the reservoir was quickly filled to its extreme limit.

The record of the rainfall at the storing reservoir, at the pumping station, and at the corner of Spring and County streets, appears in annexed table A. Thomas R. Rodman, Esq., kindly supplies the last named statement, as has been his usual custom for several years past. I have said

that the amount of rainfall for the past year has been very heavy. Especially is this true for the months of September and November, the record of which shows a result far in excess of the usual average for those months.

As regards to quality of the water, it has remained excellent throughout the entire season. No complaints have been received at this office. The unusually cool weather which prevailed during the summer months, and which prevented the temperature of the water from rising to the average of former years, undoubtedly has much to do with this result. The average temperature of the water at the storing reservoir during the summer months was about 73 degrees.

The annexed tables, which are kindly supplied through the courtesey of F. P. Stearns, Esq., Chief Engineer of the State Board of Health, present the results of monthly examinations of the Acushnet water.

Water Analysis—State Board of Health.

(Parts in 100,000.)

Locality.	No.	Date Received.	Appearance.		Odor.		Residue on Evaporation.				Ammonia.		Chlorine.	Nitrogen as Nitrates and Nitrites.	Nitrates.
			Turbidity.	Color.	Cold.	Hot.	Total.	Loss on Ignition.	Fixed.	Order on Ignition.	Free.	Albuminoid.			
Conduit at entrance to receiving reservoir.	1601	Jan. 24, 1888.	Distinct, very little sediment.	1.5	Faintly straw-like.	Very faintly mouldy.	6.70	3.00	3.70	Peaty.	.0022	.0237	.61	.040	
do.	1869	Feb. 20, 1888.	Slight, no sediment.	1.3	Very faintly strawlike.	Very faint or none.	6.25	2.75	3.50	Peaty.	.0031	.0266	.67	.020	
do.	2087	Mar. 22, 1888.	Slight, a little sediment.	1.0	Faintly straw-like.	Very faintly grassy.	4.25	1.55	2.70	Peaty.	.0012	.0173	.52	.007	
do.	2284	Apr. 23, 1888.	Very slight, a little dark brown sediment.	1.4	Faintly straw-like.	Very faint or none.	4.45	1.75	2.70	Peaty.	.0013	.0228	.48	.015	
do.	2483	May 22, 1888.	Very slight, a little reddish brown sediment.	1.5	Very faint or none.	Very faintly straw-like.	4.55	2.25	2.30	Peaty.	.0006	.0216	.46	.015	Slight.

No mention is made of degrees of hardness.

Scale of Colors.—0 = colorless.
1 = a yellowish brown tint.
2 = a deep yellowish brown.

Water Analysis—State Board of Health.

(PARTS IN 100,000.)

Locality.	No.	Date Received.	Appearance.		Odor.		Residue on Evaporation.				Ammonia.		Chlorine.	Nitrogen as Nitrates.	Nitrogen as Nitrites.
			Turbidity.	Color.	Cold.	Hot.	Total.	Loss on Ignition.	Fixed.	Odor on Ignition.	Free.	Albuminoid.			
Conduit at entrance to receiving reservoir.	2684	June 23, 1888.	Slight, a little brown sediment.	2.3		Faintly grassy	5.30	2.85	2.45	Faintly peaty.	.0022	.0296	.50	.0050	.0002
do.	2854	July 27, 1888.	Very slight, very little sediment.	1.8		Very faintly mouldy.	4.90	1.90	3.00	Peaty.	.0004	.0278	.49	.0070	.0003
do.	3040	Aug. 31, 1888.	Clear, a little light brown flocky sediment.	1.0		Very faintly grassy.	4.55	2.00	2.55	Peaty.	.0006	.0212	.44	.0050	
do.	3278	Sept. 28, 1888.	Very slight, very little sediment.	0.7	Very faint or none.	Very faint or none.	4.00	1.55	2.45	Peaty.		.0236	.48	.0180	.0001
do.	3452	Oct. 27, 1888.	Very slight, very little sediment.	2.0	Very faintly earthy.	Faintly wooden.	6.10	3.15	2.95	Peaty.	.0018	.0286	.50	.0200	.0002
do.	3619	Nov. 30, 1888.	Very slight, slight sediment.	1.8	Distinctly strawlike.	Faintly vegetable.	6.45	2.75	3.70	Strongly peaty. Slightly disagreeable	.0028	.0222	.62	.0450	.0002

No mention is made of degrees of hardness.
Color, evaporation, and ammonia, are analyses after being filtered through filter paper.

Scale of Colors.—0 = colorless.
1 = a yellowish brown tint.
2 = a deep yellowish brown.

Water Analysis—State Board of Health.

(Parts in 100,000.)

Locality.	No.	Date Received.	Appearance.		Odor.		Residue on Evaporation:				Ammonia.		Chlorine.	Nitrogen as Nitrites and Nitrates.	Nitrates.	Hardness.
			Turbidity.	Color.	Cold.	Hot.	Total.	Loss on Ignition.	Fixed.	Odor on Ignition.	Free.	Albuminoid.				
Outside gate house at distributing reservoir.	1473	Dec. 22, 1887.	Slight, a little sediment.	1.2	Faintly strawlike.	Distinctly musty.	5.60	2.10	3.5	Peaty.	.0035	.0257	.66			
do.	1662	Jan. 24, 1888.	Slight, very little sediment.	1.8	Very faintly musty.	Faintly mouldy.	6.35	3.10	3.25	Peaty.	.0022	.0286	.52	.025		
From gate house distributing reservoir.	1870	Feb. 20, 1888.	Slight, very little sediment.	1.3	Very faintly strawlike.	Very faint or none.	6.75	2.70	4.05	Peaty.	.0022	.0295	.62	.008		
do.	2080	Mch. 22, 1888.	Slight, no sediment.	1.0	Faintly strawlike.	Very faintly grassy.	4.20	1.90	2.30	Peaty.	.0004	.0195	.51	.006		
City Hall, from faucet.	2285	Apl. 23, 1888.	Slight, no sediment.	1.4	Faintly strawlike.	Very faint or none.	4.20	1.55	2.65	Peaty.	.0014	.0221	.49	.015		
do.	2484	May 22, 1888.	A little flocky sediment.	1.2	Very faintly strawlike.		4.55	2.00	2.55	Peaty.		.0216	.47	.012	Slight.	1.1
Little Quittacas, 5 feet below surface middle of pond.	1705	Jan. 31, 1888.	Very slight, a little whitish sediment.	0.1	Very faintly strawlike.	Very faint or none.	3.25	1.30	1.95	Peaty.		.0178	.54	.007		
do.	2535	May 31, 1888.	Slight, very little sediment.	0.2	Very faint or none.	Very faintly grassy.	2.75	1.00	1.75	Very faintly peaty.	.0006	.0164	.43		.0001	

Scale of Colors.—0=colorless.
1=a yellowish brown tint.
2=a deep yellowish brown.

Considerable work has been accomplished in clearing the land purchased by this department for the purpose of conveying the water from Little Quittacas pond into the storing reservoir. All trees and underbrush have been removed and a log foundation for a roadway has been located along the side of the proposed conduit line. This roadway will soon be in condition for travel from the North Rochester road to the Little Quittacas pond. The channel, which forms the present connection between the pond and the reservoir, has been greatly improved.

No more work has been done in connection with the storing reservoir than that necessary for proper maintenance.

A thorough examination of the interior of the conduit was made during the month of November and no serious deterioration was detected in any place.

Improvements in the receiving reservoir lot are now in progress. Two lines of twenty-inch vitrified pipe replace the open water course which passes along the west side of the lot. This was done in order to allow this portion of the lot to be filled up to the grade of the adjoining railroad property. With the exception of the west side, bank walls have been built around the entire lot, and the fence has been reset upon the top of the same. A gateway has been constructed at the northeast corner. There has been expended to this date the following :

Labor, including teaming,	$1924.14	
Stone,	598.63	
Drain,	767.55	
Carpenter work,	182.60	
Blacksmith,	61.65	$3534.57

On April 16th, the delivery from the pumps into the distributing reservoir was discontinued and placed in connection with the stand pipe. This allowed the reservoir to be drained for the purpose of making needed repairs and improvements. On the 23d inst., the bottom was in condition

for cleaning. Here, and upon the slope wall, was found a vegetable deposit averaging about a quarter of an inch in thickness. At the foot of the slope wall, and especially at the corners, there was a large deposit of sand and gravel. It will be remembered that, in 1881, this slope wall had become so demoralized by the wash as to necessitate extensive repairs. Large quantities of gravel, in which the stone lining was bedded, had become displaced and had settled at the foot of the slope. It could not then be removed, as the water was not drained below the seven foot level. Above that level, the slope was then entirely rebuilt and all joints between the stones filled with cement grout. This has now been continued, and the work commenced in 1881 is now completed. The bottom was thoroughly scraped, all deposits being carefully removed and dumped into the lot south of the reservoir, whence it was carried to the pumping station lot and used for grading purposes.

In the delivery chamber of the interior of the gate house, new sluice gates replace those formerly in use. Screen grooves of cast iron, resting upon a cast iron sill, substitute that of wood, which had become badly decayed. Other improvements consist of a floor of granite blocks bedded in cement; a sixteen-inch connection between the screen chamber and the old force main, thus converting the old force main into a distributing main; the reshingling of the roof; the laying of a new floor; the repointing of the stone work; and the placing of a device for the easy handling of the screens.

This work was completed so that the supply of the city was resumed through this reservoir on June 14, 1888.

The cost of the work was as follows:

Sluice gates, valves, screens, sills, &c.,	$947.35	
Carpenter, blacksmith,	354.87	
Cement, sand, stone,	149.53	
Hardware and other supplies,	177.41	
Labor,	1182.25	$2811.41

Engine No. 1 (McAlpine) has been in operation 1755 hours 10 minutes, making 1,607,536 revolutions and pumping 471,008,048 gallons of water. Only very slight repairs have been made during the past year.

Boilers Nos. 1, 2, 3, and 4 operate in connection with engines Nos. 1 and 2. The settings of all these boilers have been repaired, especially around the fire box and bridge wall. The two former are rapidly depreciating, and from present indications should say that in another year they should be condemned as unfit for future service. They have now been in constant use for nineteen years, being a longer life than is usually obtained.

The two latter have now been in use about nine years. They need retubing. This should be done previous to the time boilers Nos. 1 and 2 are condemned.

The following statement shows the cost of pumping with engine No. 1:

Salaries, 19½ weeks,	at	$80.17	$1563.43	
188.7721 gross tons Lehigh coal,	"	5.48	1034.47	
173.7894 " " " "	"	5.89	1023.61	
3.6160 " " " "	"	5.48	19.82	
1⅛ cords white pine wood,	"	4.00	4.50	
36½ gallons cylinder oil,	"	.62½	22.81	
30 " sperm "	"	.85	25.50	
7¾ " lubricating oil,	"	.30½	2.36	
2 " alcohol,	"	2.45	4.90	
10 lbs. flax packing,	"	.69	6.90	
3 " round "	"	.44	1.32	
64 " waste,	"	.09	5.76	
34,459 cubic feet gas,	"	1.50	51.67	
7 brooms,			1.46	
1 water glass,			.21	
1 whitewash brush,			1.60	
1 tube cleaner,			2.10	
Sal soda,			.35	
Blocks and falls,			1.60	
Coal screen,			2.83	
Other small supplies,			20.38	
Repair to engine,			2.15	
Repair to boilers and settings,			83.43	$3883.16

Cost of raising water into distributing reservoir, per million gallons,	$8.24
Cost of pumping water one foot high, per million gallons,	.0605 cents

Engine No. 2 (Worthington) has been in operation 1724 hours, making 1,534,026 revolutions and pumping 227,035,848 gallons water. The repairs have been of small account. The cost of pumping has been as follows, viz.:

Salaries, 12 weeks,	at	$80.17	$962.04	
201.2114 gross tons Lehigh coal,	"	5.48	1102.64	
19.7322 " " " "	"	5.89	116.22	
.9375 " " " "	"	5.48	5.14	
½ cord white pine wood,	"	4.00	2.00	
31¼ gallons cylinder oil,	"	.62½	19.53	
9¼ " sperm "	"	.85	7.87	
½ gallon lubricating oil,	"	.30½	.16	
2 lbs. round packing,	"	.44	.88	
39 " waste,	"	.09	3.51	
1 gallon boiler composition,			1.27	
25,600 cubic feet gas,	at	1.50	38.40	
1 water glass,			.21	
4 brooms,			.88	
1 tube cleaner,			2.00	
Sal soda,			.30	
Blocks and falls,			1.60	
Coal screen,			2.83	
Other small supplies,			20.38	
Repair to engine,			8.42	
Repair to boilers and settings,			83.43	$2379.71

Cost of raising water into distributing reservoir, per million gallons,	$10.48
Cost of pumping water one foot high, per million gallons,	.0815 cents

Engine No. 3 (Worthington high duty) has been in operation 2467 hours 45 minutes, making 2,752,344 revolutions, and pumping 533,954,736 gallons of water.

In the matter of repairs, the compensating cylinders have been rebored, taking out a very thin cut. The followers have been lengthened, giving better bearing upon the body

of the piston, preventing tendency to rock, and thus shear off the follower bolts, which has been a cause of annoyance in the past, and which now seems to be remedied. Larger follower bolts replace those formerly in use. The sleeve at the head of the low pressure cylinder, number one side, through which the outside rod passes, was originally set a little too high, and in consequence this side failed to move as freely as the other. This sleeve has been rebored and perfect freedom in movement has thus been obtained.

The engine still continues to attract many visitors, all of whom express satisfaction at the smoothness and good appearance which this engine presents when in operation.

Boilers Nos. 5 and 6, which operate in connection with this engine, have been supplied with a new set of rocking grate bars. Their condition is excellent.

In presenting the following statement of cost of pumping with engine No. 3, your attention is called to the fact that the expense of the above described repairs brings the cost of pumping per million gallons to a larger amount than usual.

Salaries, 20½ weeks,	at	$80.17	$1643.60
223.8332 gross tons Lehigh coal,	"	5.48	1226.61
142.3254 " " " "	"	5.89	838.30
6.6518 " " " "	"	5.48	36.44
½ cord white pine wood,	"	4.00	2.00
91 gallons cylinder oil,	"	.62½	56.88
46 " sperm "	"	.85	39.10
14½ " lubricating oil,	"	.30½	4.42
½ bbl. boiler composition,			29.00
31 lbs. flax packing,	at	.69	21.39
12½ " round "	"	.44	5.50
70 " waste,	"	.09	6.30
500 " soda ash,	"	.03	15.00
6 brooms,			1.25
7 water glasses,			1.47
3 tube cleaners,			6.00
Sal soda,			.35
Blocks and falls,			1.60
Coal screen,			2.83

1 set oil cups for cylinder and bearings,	$36.00	
1 set boiler automatic gage glasses,	20.50	
1 coal shovel,	1.25	
1 can of polish,	2.00	
Gasket for hand holes,	3.00	
Other small supplies,	16.53	
Repairs to engine,	438.33	
Repairs to boilers,	69.77	$4615.04
Cost of raising water into the distributing reservoir, per million gallons,		$8.6431
Cost of raising water one foot high, per million gallons,		.068 cents

The total cost of pumping may be summarized as follows, viz.:

1st. Figured on pumping station expenses, viz.:		$10,877.91
Cost of fuel used,	$5,411.75	
Salaries, engineers, firemen, watchmen,	4,169.07	
Cost of oil, waste, packing, and other supplies,	611.56	
Repairs and alterations on machinery and boilers,	685.53	
Total pumping expenses,		$10,877.91
Raising water into reservoir, per million gallons,		$8.83
Raising water per million gallons, one foot high,		.067437 cents
2d. Figured on total maintenance, viz.:		$77,548.84
Raising water into reservoir, per million gallons,		$62.94
Raising water per million gallons, one foot high,		$.48\frac{076}{1000}$ cents

The contract for coal for the present year was made with David Duff & Son, at $5.89 per gross ton.

The annoyance mentioned in my last Report, caused by an insufficient draught capacity of the chimney, is fast becoming a positive obstruction. There have been days in the past summer when it was an exceedingly difficult matter to satisfactorily operate the boilers. This defect should be remedied or else trouble will surely come.

Let me invite your attention to the following list of improvements much needed at the pumping station, and I would strongly urge their adoption at an early date.

1st. The substitution of new boilers in place of boilers Nos. 1 and 2. They should be capable of carrying high

pressure of steam, of high evaporation power, of capacity that will admit of use either with the "high duty" engine or the others, at pleasure.

2d. The building of a new chimney, of sufficient height and flue area that will allow the operating of the entire boiler plant at the same time.

3d. The connecting of the boiler flues with the new chimney, and the removal of the chimney now in use.

4th. The building of a coal shed of sufficient capacity for the storage of a year's supply (1000 gross tons) of coal.

Improvements at the yard on Water street have been as follow, viz.: The old house which stood next north of the workshop has been removed; the lot at the corner of Water street and Ark lane has been purchased, and the buildings have been removed; the space thus cleared has been filled in and transformed into a pipe yard; at the west end of the property a large shed has been constructed for the systematic arrangement of castings and other stock which it is necessary for this department always to have on hand. The cost has been as follows:

Paid for deed of land,	$1000.00	
Filling, grading, carting, and arranging pipe,	317.20	
New shed,	743.77	$2060.97

An unusually large amount of work has been accomplished during the past season, in extending the distributing mains; 27,055 feet of main pipe has been laid, and 1586 feet of that previously laid removed. The total length of distributing mains now in use is 59.2022 miles.

As heretofore stated, a sixteen-inch connection has been made at the gate house of the distributing reservoir between the screen chamber and the old force main, by which this main may be converted at pleasure into a feeder to the distributing system, to which use it will be almost wholly devoted in the future.

The twenty-inch supply main has been continued from

its former terminus on Pleasant street, opposite the entrance to the Library Building, southerly to William street, and thence through William and Sixth streets to Union street. The cost of placing this line of pipe, together with that of making the necessary connections, is herewith stated:

Pipe,	$1596.45	
Special castings,	761.53	
Gates and hydrants,	760.16	
Lead and gasket,	207.14	
Altering sewers and drains,	165.07	
Blacksmithing,	21.95	
Carting,	59.21	
Labor,	565.79	$4137.30

This supply main is now fully completed to Union street. As the result, a marked improvement in the maintenance of the normal pressure is to be noted. It is, however, desirable that this main should be continued and certain connections made with the Purchase street main as rapidly as circumstances will permit. A recommendation covering this point will appear later.

The sum of $20,000 was placed to the credit of this department by the city council for the purpose of extending the main pipe in Acushnet avenue from its present terminus at Coggeshall street, northerly to Lund's corner. This work has been accomplished, and in connection therewith lines of pipe have been laid in Sawyer street from Purchase street to Acushnet avenue; also in Coffin avenue from Bowditch street to Acushnet avenue. This work has required the placing of

3981 feet 10-inch pipe,
7403 feet 8-inch pipe,
528 feet 6-inch pipe,
33 stop gates,
18 fire hydrants,
3 watering cart hydrants.

The cost may be stated as follow:

Pipe,	$9,099.68
Special castings,	490.91

Gates and hydrants,	$1,957.80	
Lead and gasket,	736.28	
Carting,	303.76	
Labor,	4,351.76	
Other expenses,	387.04	$17,327.23

For the supply of the new Howland Mill property, there has been a large expenditure. Pipe has been laid in Rivet street from County to Dartmouth, and in Howland Mill avenue from Rivet street south to a point opposite the mill. Also in three streets leading west from the mill avenue. This work has added to the distributing system:

3842 feet 10-inch pipe,
1547 feet 8-inch pipe,
520 feet 6-inch pipe,
11 stop gates,
9 fire hydrants.

The total cost has been:

Pipe,	$4894.12		
Special castings,	368.65		
Gates and hydrants,	774.80		
Lead and gasket,	369.00		
Carting and labor,	2483.53		
Other expenses,	59.23	$8922.33	
By amount paid by Mill Corporation,		529.72	
Net cost of work,			$8392.51

There have been twelve leaks upon the mains the past season, as herewith shown:

DATE.	SIZE.	LOCATION.	CAUSE.	COST.
Dec. 16, 1887	10-inch.	Purchase st., north of Maxfield.	Pipe burst.	$14.75
Dec. 17, "	8 "	South st., corner Second.	Joint started.	5.50
Dec. 31, "	4 "	Margin street.	" "	3.50
Feb. 23, 1888	6 "	Water st., corner School.	" "	15.43
Mch. 24, "	20 "	Pleasant st., corner Maxfield	" "	2.00
May 3, "	6 "	Water st., corner Blackmer.	Plug "	5.20
May 11, "	6 "	Bridge st., west of draw.	Joint "	4.60
June 4, "	8 "	Kilburn street.	" "	6.50
June 11, "	8 "	Acushnet ave., corner High.	" "	6.50
July 28, "	20 "	Pleasant st., corner Maxfield	" "	2.87
Oct. 20, "	4 "	Mosher street.	" "	5.00

The following list of work is placed before you, with the recommendation that as much as possible be included in the operation of the coming year.

1st. An extension of the twenty-inch main in Sixth street from Union to Bedford, a distance of 2200 feet. This line of pipe would replace the four-inch cement-lined wrought iron pipe now in use. The cost is estimated at $9300.

2d. In Tremont street from Arnold to Hawthorn, an eight-inch pipe to be laid, length 750 feet, the six-inch pipe at present extending from Arnold street south 300 feet to be removed. Cost is estimated at $1040.

3d. In Acushnet avenue from Walnut to Bedford, an eight-inch pipe to replace the present line of four-inch iron cement-lined pipe. In Cannon street, an eight-inch pipe to be laid from Acushnet avenue to Water street, and thence south in Water street to Pine street. Two thousand feet of eight-inch pipe will be required, and the cost is estimated at $3120.

4th. In Merrimac street, a ten-inch pipe to be located from Pleasant street west 157 feet. This will complete a ten-inch connection with the supply main in State street and the Purchase street main. Cost is estimated at $273.

5th. In Kempton street, a ten-inch pipe from Pleasant to Purchase street, and an eight-inch pipe from Purchase street to Acushnet avenue, connecting with the eight-inch pipe now terminating at that point. This will require 225 feet of ten-inch pipe and 250 feet of eight-inch pipe. Cost estimated at $800.

At the Oak Grove Cemetery, a supply has been extended into both the old and new parts, and six drinking fountains have been set for the convenience of the lot owners.

Two hundred ninety-one service pipes have been added and two extensions made to pipes laid previously. The total number of services now in use is 5785.

One hundred five service taps have been cleared as follows, viz.: Rust 100, eels 3, trouble inside 2.

Forty-eight new hydrants have been set, and thirteen previously in use have been removed. Total number now in use, 445.

Three watering cart hydrants have been added as follows:

Acushnet avenue, west side, 4½ feet north of north line South Belleville road. Acushnet avenue, west side, 13½ feet north of north line North Belleville road. Acushnet avenue, west side, 119 feet south of south line Tarkiln Hill road. Total number now in use, 37.

A Jenks fountain has replaced the horse bowl formerly in use at the junction of County and Sixth streets, and the fountain located at the corner of Robeson and Ashland streets, having been damaged beyond repair, has been removed.

Seventy-four new stop gates have been set, and six formerly in use have been removed. Total number now in use, 615.

Eight new waste gates have been set. Total number now in use, 62.

Thirteen private stop gates have been set. Total number now in use, 123.

The total length of small-sized distribution pipe (less than four-inch) is 5820 feet.

The total number of small-sized stop gates (less than four-inch) is 62.

The total number of motors now in use is 27.

The total number of meters now in use is 108.

The annexed diagram, together with the accompanying table, presents information in detail regarding the monthly consumption, the fluctuation of the water level in the storing reservoir, and the rainfall for the past ten years.

MONTHLY CONSUMPTION AND RECORD OF PRESSURE AT THE CITY HALL.

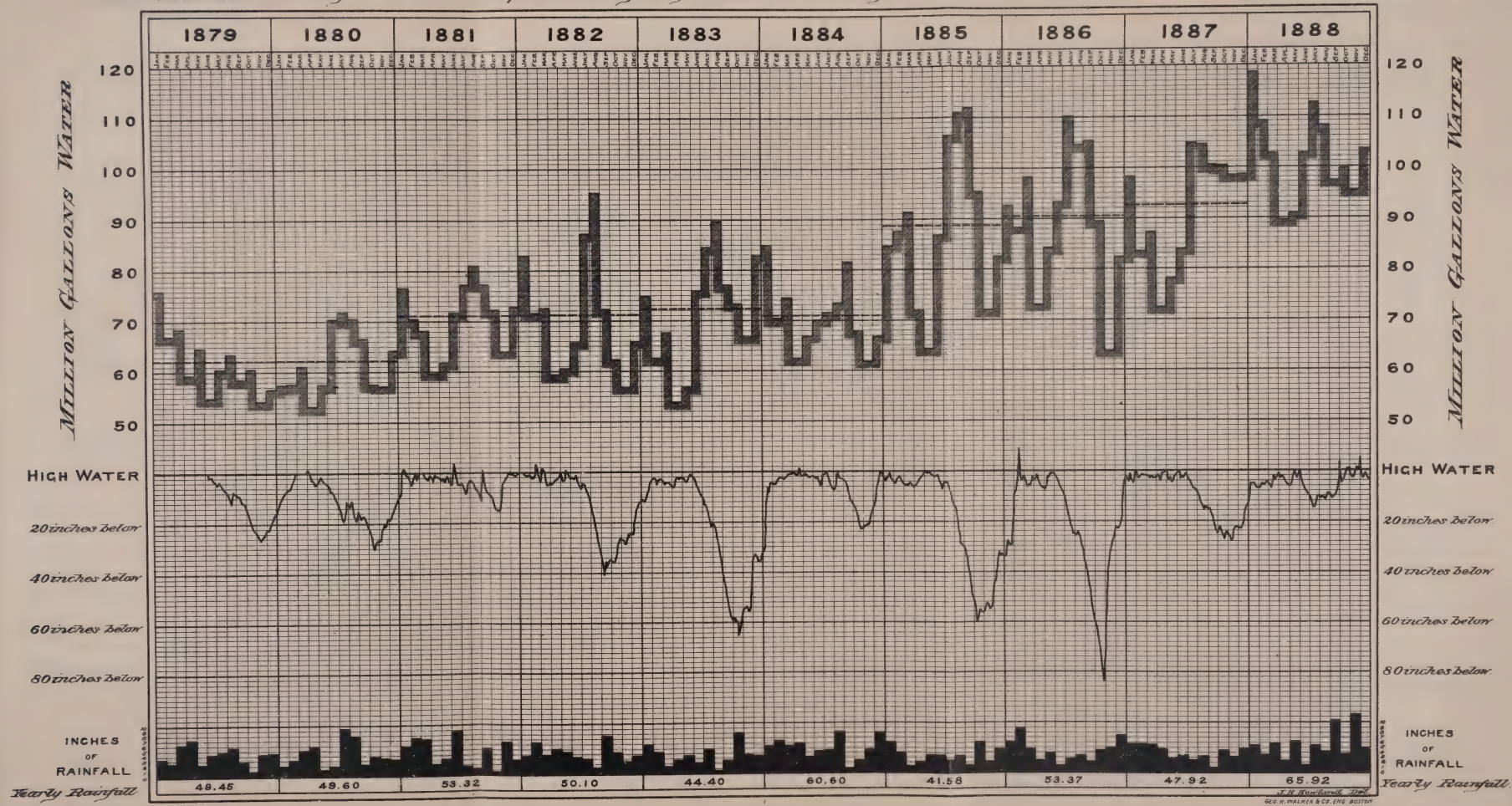
1888. Month.	Monthly Consumption Gallons.	Daily Average Gallons.	Lbs. pressure 10 A. M.			Lbs. pressure midnight.		
			Max.	Min.	Av.	Max.	Min.	Av.
January,	118,670,705	3,828,087	34	32	33	36	33	34
February,	109,038,633	3,759,952	35	31	33	37	33	35
March,	102,728,310	3,313,817	35	32	33	36	33	35
April,	89,704,015	2,990,134	37	31	34	38	32	35
May,	90,923,606	2,933,987	38	33	36	39	35	38
June,	102,758,629	3,425,288	38	33	35	40	35	37
July,	112,413,149	3,626,231	37	33	34	37	35	36
August,	108,044,419	3,485,304	36	33	34	37	32	36
September,	97,129,001	3,237,633	37	33	35	38	34	36
October,	99,790,498	3,219,048	37	33	35	38	33	36
November,	95,206,832	3,173,561	36	33	35	37	34	36
December,	103,433,997	3,336,578	36	33	35	38	34	36
Averages,	102,486,816	3,360,223	36	33	34	38	34	36

COMPARISON OF THE CONSUMPTION OF THE YEAR 1888 WITH THE RECORD OF THE SEVEN PREVIOUS YEARS.

Year.	Estimated Population.	Estimated No. of Consumers.	Total No. of Gallons Consumed.	Average Daily Consumption.	No. of Taps.	Gals. per Day to each Inhabitant.	Gals. per Day to each Consumer.	Gals. per Day to each Tap.
1881,	27,000	19,044	844,249,647	2,213,012	3925	86	122	589
1882,	28,500	20,424	859,119,622	2,326,352	4203	82	114	553
1883,	30,000	22,249	849,059,700	2,326,191	4465	78	105	521
1884,	33,000	23,749	867,815,595	2,371,080	4691	72	100	506
1885,	33,700	25,375	1,049,801,050	2,876,167	4965	85	113	579
1886,	34,500	28,480	1,086,534,615	2,976,807	5225	86	104	569
1887,	36,000	30,080	1,112,302,789	3,047,404	5495	85	101	555
1888,	37,500	31,826	1,229,841,794	3,360,223	5785	89	109	581

NEW BEDFORD WATER WORKS

DIAGRAM showing the consumption, height of water and rainfall at the Storing Reservoir for the past ten years.



An unusally long period of freezing weather prevailed for sixteen days following January 19. The atmospheric temperature ranged between 40° F. and —7° F., the average for the period being 15° F. Owing to an absence of snow, frost penetrated rapidly into the earth, and soon a level below the water mains was reached. A few service pipes were frozen, as also were some of the fire hydrants. Undoubtedly the damage from this cause would have been greatly increased had not such a large amount of water been wasted. This waste was unprecedented in our history. There was used during the time stated 72,711,858 gallons, being a daily average of 4,544,491 gallons.

The maximum and minimum daily consumption for the year was as follows:

Saturday, January 28,	5,438,139 gallons
Sunday, June 22,	2,142,666 gallons

The conduit must not be depended upon to deliver an amount exceeding 6,000,000 gallons per twenty-four hours. Under the best of conditions, undoubtedly a much larger amount may be forced through, but the continuance of such a practice would certainly be unwise. Hence, it will be readily seen that at the present rate of yearly increase in the consumption, the time is not many years distant when the construction of a new conduit will be an imperative necessity. Even at this time the capacity of the distributing reservoir permits of so little reserve storage, in comparison with the daily consumption, that it is difficult to obtain access to the conduit for a long enough period to prosecute ordinary repairs which it requires from time to time. This will continue to grow more perplexing each year. The conduit is the mainspring of the whole work. Other parts of the system are so duplicated as to render them comparatively free from liability of serious disarrangement: two spare engines at command in case of accident to the third; a stand pipe, should the distributing

reservoir need repairs; and three main distribution pipes, allowing two in use, should repairs be needed upon the third; but, should the conduit become seriously impaired at any one place, then the whole supply must cease. It is a frail structure at the best and is not altogether free from the liability of serious injury, although such an occurrence is not anticipated in the near future. From the fact that the matter of repairs is becoming more difficult each year, also considering the disaster to our community should the supply suddenly be cut off, it seems to me that the risk should receive consideration at your hands, that plans for the future should be matured, so that if any emergency should arrive, you will not be compelled to hastily decide important questions.

The rate of consumption still continues at very high figures. Although the mills use enormous supplies, as they can well afford to do at the rate charged, yet there still exists a wastage which can be checked. So much additional work, incidental to the rapid growth of our city, has been added to the duties of the regular employés of this department as to preclude their giving this important matter the attention which it deserves and which it formerly received. I would recommend that sufficient help be provided that night inspections may be made during the coming year, as was done a few years ago.

The regulations established by the Board of Health prescribe rules for all plumbing connected with our system. The rigid inspection which they enforce will gradually improve the work heretofore placed, some of which is of the cheapest character, causing much annoyance in the matter of leakage.

Respectfully submitted.

R. C. P. COGGESHALL,

Superintendent.

TABLE A.

Showing Rainfall at Storing Reservoir for 1888.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1,	1.42			.12		.05	.36		.06			
2,	.78						.06			.28		
3,												
4,	.15				.65			.20	.17			
5,		.56										
6,				1.05								
7,	.10					.51		.34		.52		
8,	.16	.32							.70			
9,					.25						.43	.50
10,	.26								1.10		1.10	.18
11,				.95	.25						1.15	1.16
12,		.55	1.90		1.75		.76		.55			.92
13,	1.09		.46		.32			1.05	.31			
14,			.09		.08	.28				.20		
15,	.16			.06	.12							
16,						.26		.05		.21	1.50	
17,								.10	.18		.35	.82
18,	.50				.87				.75		.45	1.06
19,					.06				.40		.50	
20,						.08	.70			.87		
21,		.95	1.13	.20			.33	.40	.80	.10		
22,			.52				2.05	2.00				
23,							.95		.05			
24,					.21				.07	.86		
25,		1.19				.10					1.96	
26,	.88				.46	.30			4.78		2.43	
27,			1.16				.46	.14			1.00	.28
28,			.60		.92				.43	.78	.50	.08
29,			.12							.06	.10	
30,					.22							
31,					.10							
Totals,	5.50	3.57	5.98	2.38	6.26	1.58	5.67	4.28	10.35	3.88	11.47	5.00

Total fall for the year, 65.92 inches.

TABLE A.

Rainfall as recorded at the Storing Reservoir for the past 11 years.

Years.	MONTHS.												Totals.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1878,	8.03	5.75	6.71	6.13	3.29	2.66	2.89	3.60	1.30	8.88	7.96	6.77	63.97
1879,	3.31	2.57	6.27	7.14	2.25	4.34	4.89	5.74	2.86	1.02	4.44	4.63	49.45
1880,	2.02	3.13	5.12	5.79	1.32	1.94	9.46	7.91	2.27	3.87	3.49	3.28	49.60
1881,	5.82	7.48	7.21	2.16	3.17	8.92	1.80	1.28	5.24	.75	6.51	2.98	53.32
1882,	3.80	6.40	3.99	5.05	4.55	3.48	3.02	1.36	7.78	4.39	2.58	3.70	50.10
1883,	5.92	4.44	1.63	2.80	3.70	2.14	4.97	.70	2.68	8.05	3.82	3.55	44.40
1884,	5.55	6.68	5.53	6.03	3.20	4.45	4.67	8.17	.96	2.47	4.84	8.05	60.60
1885,	6.14	4.03	1.38	2.13	3.63	3.61	2.54	3.48	1.49	6.14	2.23	4.78	41.58
1886,	6.20	8.86	4.87	2.44	3.99	1.38	2.87	3.50	2.15	4.58	5.06	7.47	53.37
1887,	5.71	5.80	5.65	4.85	2.82	3.51	2.68	3.22	1.01	4.56	3.19	4.92	47.92
1888,	5.50	3.57	5.98	2.38	6.26	1.58	5.67	4.28	10.35	3.88	11.47	5.00	65.92
Totals,	58.00	58.71	54.34	46.89	38.18	38.01	45.46	43.24	38.09	48.59	55.59	55.13	580.23
Av'ges,	5.27	5.34	4.94	4.26	3.47	3.46	4.13	3.93	3.46	4.42	5.05	5.01	52.75

TABLE A.

Showing Rainfall at the Pumping Station for 1888.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1,	1.67			.12	.06		.02	.04	.03	.19		.01
2,				.02					.02	.01		
3,			.10								.02	
4,					.35			.01	.21			
5,	.10	.48					.02	.24		.02		
6,				1.36						.02	.17	.03
7,	.05	.05						.48		.54	.01	
8,	.15	.22						.02			.14	
9,					.16		.04		.66		.97	.48
10,	.28				.04				.96		.86	
11,		.26		.75			.65					1.61
12,		.42	1.29	.01	1.84			.02	.35	.09		
13,	.28			.01	.02		.01	.69	.17			
14,	.63	.01	.14	.11	.05	.04				.12		
15,	.05				.11	.21					.87	
16,				.07		.03			.08	.04	.22	
17,	.92				.01			.03				
18,		.01		.02					1.13			1.04
19,					.91						.78	
20,		.84				.02	.49		.02	.81		
21,			1.78	.29		.05	.02	2.47				
22,				.01		.02	2.93		.49			
23,	.08								.02			
24,					.05					.66		
25,		.69			.42	.02						
26,	.80					.22			4.95	.04	3.11	.01
27,	.03		1.55		.22		.27	1.02	.14	.01		.31
28,			.74				.02		.08	.49		
29,			.18		.80	.08	.20			.03	.09	
30,					.68	.31						
31,					.23							.01
Totals,	5.04	2.97	5.78	2.77	5.95	1.00	4.67	5.02	9.31	3.07	7.24	3.50

Total fall for year, 56.32 inches.

TABLE A.

Showing Rainfall at New Bedford, as registered by T. R. Rodman, for 1888.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1,						.12	.28	.04	.01			
2,	1.64		.01	.15	.08					.21		
3,			.11							.01	.04	
4,												
5,	.12	.50			.34			.31	.18			
6,				1.28				.90			.25	
7,										.51		
8,	.23	.30										
9,					.19			.01	.72		.16	.52
10,	.25				.01				1.00		1.00	
11,		.25		.58							.80	
12,		.40			1.83		.62		.42			1.64
13,	.68		1.30				.02	.60	.24	.12		
14,			.02	.09	.04	.02				.11		
15,	.06		.13		.12	.44					.80	
16,						.16						
17,								.01	.07	.06	.26	
18,	.60								1.24			.85
19,					1.00							
20,						.06	.62			.80	.88	
21,		.56		.32		.02			.10			
22,			1.72				3.06	2.12	.50			
23,												
24,										.69		
25,						.05						
26,		.62				.22			4.80			
27,	.80		1.48				.29	.90		.05	3.08	.32
28,			.76						.24			
29,			.13			.08	.28			.10		
30,					1.84	.28					.12	
31,					.12							
Totals,	4.38	2.63	5.66	2.42	5.57	1.45	5.17	4.89	9.52	2.66	7.39	3.33

Total fall for the year, 55.07 inches.

TABLE A.

Rainfall for the past 75 years. Furnished from the records of Thomas R. Rodman.

Years.	Months.												Totals
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1814	1.42	8.30	2.16	5.46	4.23	2.27	.99	6.44	3.06	1.73	5.37	1.65	43.08
1815	4.55	3.32	5.02	4.66	4.11	2.22	1.96	4.36	2.51	1.47	3.45	3.15	40.78
1816	2.12	6.82	2.47	5.50	6.15	2.33	1.01	1.46	6.05	3.96	5.56	.70	44.13
1817	3.96	5.26	1.77	2.60	1.19	7.00	.88	3.21	4.09	1.19	6.64	5.54	43.33
1818	3.31	.91	3.31	3.94	6.79	3.51	3.32	1.66	5.52	2.84	3.35	2.31	40.77
1819	1.25	2.54	7.30	3.31	2.06	3.32	1.57	6.00	4.81	3.84	1.92	1.74	39.66
1820	1.46	5.02	4.44	1.23	5.41	.46	3.71	4.38	2.01	6.22	3.75	3.23	41.32
1821	2.32	5.96	2.52	6.09	5.42	3.78	2.41	2.23	4.11	4.96	2.94	2.90	45.64
1822	3.29	3.70	3.31	4.76	.58	2.58	5.14	3.51	6.05	2.97	3.62	2.27	41.78
1823	4.84	5.00	8.43	1.83	7.67	3.20	4.63	3.90	2.08	5.06	3.51	9.74	59.89
1824	3.84	5.32	3.61	5.74	2.68	3.14	2.44	6.21	4.88	2.55	3.54	3.39	47.34
1825	2.80	2.21	6.06	1.42	2.11	3.71	2.06	3.52	1.68	2.78	1.81	7.93	38.09
1826	2.19	3.85	4.08	2.92	.73	2.11	2.44	18.72	1.44	7.47	4.50	4.32	54.77
1827	3.14	3.99	4.88	3.46	6.94	4.42	4.36	7.63	5.65	6.68	8.42	3.33	62.90
1828	3.02	3.25	4.31	3.48	3.91	4.04	3.02	1.15	3.63	3.62	5.16	.45	39.04
1829	9.06	5.76	7.03	4.79	8.59	2.92	3.40	7.53	3.49	3.53	7.18	2.13	65.41
1830	4.20	3.07	4.77	2.25	6.63	3.71	12.00	6.22	5.20	3.54	6.18	6.89	64.66
1831	7.47	3.53	5.24	7.38	4.45	3.52	7.26	3.32	5.86	6.04	3.68	3.43	61.18
1832	3.98	5.36	3.02	3.41	6.55	.41	1.69	8.30	3.00	2.64	4.43	6.52	49.31
1833	3.91	2.37	1.92	2.31	4.14	4.25	1.38	2.57	1.88	5.70	5.51	6.68	42.62
1834	2.76	1.61	1.95	2.94	4.74	7.30	3.42	1.81	5.63	5.25	4.23	3.48	45.12
1835	3.35	1.80	6.52	6.84	2.65	2.52	1.56	10.16	.90	2.99	2.97	4.95	47.21
1836	9.53	4.62	3.78	2.78	1.76	4.93	1.90	1.12	1.28	2.58	4.53	4.02	42.83
1837	3.69	3.75	4.47	3.33	6.47	4.41	2.15	4.37	.54	1.34	1.50	3.05	39.07
1838	3.00	2.41	2.90	2.15	3.02	2.84	1.55	2.99	6.71	5.38	4.36	.97	38.28
1839	.77	2.71	2.44	4.83	4.96	2.51	2.76	5.89	3.38	5.86	2.01	6.26	44.38
1840	3.25	2.68	3.99	4.56	5.82	3.69	2.14	2.88	3.07	6.93	7.52	3.06	49.59
1841	5.57	1.75	4.06	9.27	1.66	1.44	3.05	5.05	2.90	4.70	5.30	5.85	50.60
1842	2.47	4.34	2.89	3.77	3.17	7.40	1.34	1.97	2.00	.86	3.06	5.79	39.06
1843	3.94	4.18	4.02	6.19	1.39	1.45	3.31	7.13	1.77	6.86	5.09	5.34	50.67
1844	4.19	2.18	6.65	1.79	2.60	.90	3.08	2.49	4.15	4.56	4.01	4.13	40.73
1845	4.16	3.00	3.04	1.87	3.79	2.34	3.09	3.37	4.49	4.29	9.72	4.90	48.06
1846	3.09	2.57	1.74	1.20	6.40	.99	2.61	3.07	2.48	1.68	3.80	4.88	34.51
1847	3.33	4.57	3.25	1.66	2.64	6.46	2.41	7.15	7.20	.62	1.52	5.10	45.91
1848	3.75	4.22	2.89	1.46	3.88	2.99	4.04	1.16	1.89	5.43	3.30	5.73	40.74
1849	.88	2.07	5.70	2.23	2.43	1.59	1.22	4.88	1.24	5.71	5.15	3.32	36.42
1850	5.87	2.22	6.05	9.25	4.49	1.23	2.26	6.29	12.06	2.62	2.82	7.51	62.67

Rainfall for the past 75 years — *Continued.*

Years.	Months.												Totals
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1851	2.24	6.20	3.27	4.84	4.78	1.18	9.22	3.49	3.75	5.37	4.76	2.51	51.61
1852	3.91	3.57	5.50	7.86	3.50	1.71	2.55	5.49	2.01	2.03	3.66	4.35	46.14
1853	1.69	4.67	1.28	3.92	4.36	.92	3.95	2.95	3.84	3.52	3.92	4.45	39.47
1854	1.99	5.67	2.15	6.83	3.565	3.025	7.435	.235	8.37	1.485	9.665	3.40	53.82
1855	4.725	2.62	1.95	4.24	3.635	1.835	4.79	1.42	.62	4.655	4.825	5.68	40.995
1856	5.185	1.27	1.64	3.205	3.96	2.115	3.32	2.81	4.555	1.89	3.26	3.88	37.09
1857	6.20	1.845	2.52	5.905	3.69	2.305	4.615	3.94	2.315	2.635	1.845	5.49	43.305
1858	2.465	1.28	2.28	4.39	2.025	5.155	6.75	5.05	3.015	3.205	3.835	4.58	44.03
1859	8.53	4.40	6.64	3.44	5.135	6.155	.955	4.015	3.645	2.07	2.105	4.34	51.43
1860	1.37	3.50	2.825	2.865	2.795	3.26	2.96	5.00	5.245	1.825	3.435	4.65	39.73
1861	4.19	3.25	4.06	5.44	4.42	3.115	1.705	5.00	3.50	4.295	4.58	2.905	46.46
1862	3.27	3.875	2.805	1.665	2.855	8.05	3.065	1.20	3.985	5.625	4.47	2.455	43.32
1863	2.75	4.165	4.265	4.335	3.520	2.49	4.265	2.51	2.50	1.895	7.03	5.37	45.095
1864	4.35	1.51	5.52	3.10	2.93	1.08	1.50	7.675	2.28	2.35	4.185	4.485	40.965
1865	5.51	3.915	4.90	3.235	6.36	1.66	5.15	1.21	.265	4.93	4.47	4.405	46.01
1866	2.30	4.54	3.695	2.06	4.15	4.175	1.855	3.60	5.325	2.635	2.65	3.31	40.295
1867	2.845	5.085	5.58	3.175	3.85	2.36	6.03	5.705	2.435	3.96	1.99	4.095	47.11
1868	6.17	2.43	4.64	5.96	9.42	6.51	3.785	4.495	5.91	1.68	2.985	2.34	56.325
1869	3.97	5.335	6.215	1.42	5.915	4.45	1.625	2.765	2.62	6.75	2.305	6.565	49.935
1870	6.195	4.55	3.46	6.195	3.505	3.62	3.05	1.69	1.28	6.64	3.28	3.70	47.165
1871	3.255	3.28	4.86	3.93	2.675	5.39	1.92	6.35	2.235	6.385	6.985	2.335	49.60
1872	2.645	2.415	5.33	2.27	3.51	2.685	6.395	4.04	4.58	5.79	3.585	4.42	47.665
1873	7.235	4.93	2.89	3.985	4.95	1.435	1.225	4.165	3.17	5.335	6.315	6.06	51.695
1874	4.27	4.27	1.59	8.57	5.11	3.695	3.845	7.66	2.94	.55	3.49	3.345	49.335
1875	3.78	3.67	7.86	4.045	4.195	4.985	4.005	4.595	2.38	3.02	4.855	.94	48.33
1876	1.015	4.85	5.535	3.850	1.68	.73	3.865	1.23	4.40	1.52	8.420	5.09	42.185
1877	3.060	1.79	9.420	3.130	2.92	2.36	4.930	3.39	.83	7.66	6.595	.95	47.035
1878	5.970	4.05	4.770	4.945	2.91	2.97	2.360	5.38	1.04	5.93	5.740	4.49	50.555
1879	3.420	3.00	5.560	5.120	1.83	2.78	3.590	4.37	3.18	1.19	3.550	4.72	42.310
1880	2.060	2.97	4.850	3.490	1.37	1.96	6.590	5.62	1.68	3.11	2.440	3.92	40.070
1881	4.140	5.83	4.740	1.790	2.39	5.14	1.650	.79	3.29	1.52	5.780	2.04	39.100
1882	4.140	6.23	2.480	4.060	4.74	1.70	1.520	.89	6.26	4.00	1.910	3.45	41.380
1883	4.730	4.67	2.080	2.930	3.60	1.46	6.920	.85	2.74	6.36	3.280	3.89	43.510
1884	4.850	5.72	5.290	5.170	3.33	5.38	4.800	8.49	.98	1.63	3.550	5.80	54.990
1885	5.200	2.76	1.490	2.660	3.15	4.06	1.170	4.23	1.85	4.04	3.160	3.04	36.810
1886	6.770	7.05	5.090	2.190	4.39	1.99	2.690	2.76	2.15	4.23	3.760	6.78	49.850
1887	6.020	6.25	5.830	5.450	2.24	3.15	3.610	6.68	1.71	3.95	2.600	4.28	51.770
1888	4.380	2.63	5.660	2.420	5.57	1.45	5.170	4.89	9.52	2.66	7.390	3.33	55.070
Totals,	292.525	286.265	312.510	296.745	297.140	236.380	252.390	320.730	261.100	284.775	324.070	308.48	3473.110
Av'ges,	3.900	3.817	4.167	3.970	3.949	3.152	3.367	4.277	3.345	3.796	4.321	4.113	46.308

TABLE B.

Statement of work done by Pumping Engine No. 1 (McAlpine) for the year ending December 1, 1888.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Average dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 lbs. of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = Coal in pounds.	COAL.										
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.						
		H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1887,	17	222 30	204,290	15.3	0	20,400	10,110	68,890	99,400	99,400	59,856,970	602	825	137.2	68,889,579	99,399,393
January, 1888,	12	165 30	152,330	15.3	50	14,400	7,560	52,507	74,467	74,517	44,632,690	600	820	136.9	68,405,981	97,080,551
February,																
March,	21	285 25	264,100	15.4	134	23,400	13,850	99,429	136,679	136,813	77,381,300	565	763	135.2	63,765,702	87,740,770
April,	3	8 00	6,235	13.0	0		350	3,150	3,500	3,500	1,826,855	520	708	136.4	59,359,732	65,955,257
May,	2	10 30	6,846	10.9	100		450	4,185	4,635	4,735	2,005,878	433	590	136.5	48,222,929	54,560,204
June,	13	219 00	197,689	14.4	50	5,400	10,660	88,107	104,167	104,217	57,922,877	556	759	136.5	63,286,513	74,858,190
July,	2	28 50	26,690	15.4	133	2,400	1,490	11,090	14,980	15,113	7,820,170	524	708	135.2	57,442,526	78,280,334
August,	27	399 40	368,089	15.4	0	32,400	18,790	134,110	185,300	185,300	107,850,077	582	787	135.2	65,652,061	90,711,557
September,	7	101 00	91,964	15.2	0	7,800	4,740	34,160	46,700	46,700	26,945,452	577	773	134.1	64,525,432	88,212,462
October,	9	121 15	110,865	15.2	150	9,000	5,690	41,312	56,002	56,152	32,483,445	580	786	137.3	64,967,926	88,063,468
November,	14	193 30	178,438	15.4	17	15,600	8,730	61,975	86,305	86,322	52,282,334	606	830	137.0	69,197,179	96,381,426
Totals and Av.,	127	1755 10	1,607,536	15.3	634	130,800	82,420	598,915	812,135	812,769	471,008,048	580	789	136.1	65,764,214	89,246,578

TABLE B.

Statement of work done by Pumping Engine No. 2 (Worthington) for the year ending December 1, 1888.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Average dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 lbs. of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = Coal in pounds.	COAL.										
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.						
		H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1887,	8	167 30	189,746	19.0	167	2400	6,000	50,080	58,480	58,647	28,082,408	480	617	128.7	51,400,589	60,193,329
January, 1888,	6	132 00	150,931	19.0	50	1200	4,770	41,397	47,367	47,417	22,337,788	471	594	126.2	49,590,709	56,802,246
February,																
March,																
April.	14	328 00	268,527	13.6	50	600	9,116	79,849	89,565	89,615	39,741,996	443	572	129.2	47,778,257	53,747,053
May,	31	730 00	597,078	13.6			19,600	173,800	193,400	193,400	88,367,544	457	590	129.0	49,164,863	54,709,923
June.	12	239 30	189,635	13.2			6,250	55,650	61,900	61,900	28,065,980	453	588	129.1	48,817,181	54,299,792
July,																
August,																
September,	3	42 00	41,890	16.6		3500	1,490	9,810	14,800	14,800	6,199,720	420	534	127.3	44,473,183	67,096,239
October.																
November,	4	85 00	96,219	18.9		1800	2,910	24,690	29,400	29,400	14,240,412	484	608	125.8	50,826,656	60,522,222
Totals and av.,	78	1724 00	1,534,026	14.9	267	9500	50,136	435,276	494,912	495,179	227,035,848	459	589	128.5	49,123,434	55,884,063

TABLE B.

Statement of work done by Pumping Engine No. 3 (Worthington) for the year ending December 1, 1888.

MONTHS.	Number of days pumping.	Total pumping time per month.	Total number of strokes per month.	Average number of strokes per minute.	FUEL.						Total number of gallons pumped monthly, allowance being made for slip.	No. of gallons pumped per pound of coal for total coal.	No. of gallons raised 100 feet per pound of coal for total coal.	Average dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high, per 100 pounds of coal, calculated on total fuel used for all purposes, no deduction.	Average duty in pounds raised one foot high, per 100 lbs. of coal, calculated on amount of combustible coal used while pumping.
					lbs. of wood = 1 lb. Coal	COAL.										
						Raising steam and banking.	Ashes and clinkers.	Pumping.	Total.	Total fuel.						
		H. M.	STROKES		LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	GALS.	GALS.	GALS.	FEET.	LBS.	LBS.
December, 1887,	3	55 30	61,015	18.3	0	1,800	1,720	14,880	18,400	18,400	11,836,910	643	820	127.6	68,470,786	84,668,176
January, 1888,	10	228 00	263,457	19.3	50	1,800	7,350	63,517	72,667	72,717	51,110,658	703	894	127.3	74,610,807	85,417,722
February,	25	495 15	556,588	18.7	0	7,200	16,590	140,510	164,300	164,300	107,978,072	659	836	126.9	69,571,014	81,350,208
March,	7	129 20	141,724	18.3	50	4,200	4,210	33,390	41,800	41,850	27,494,456	657	834	127.1	69,623,965	87,264,538
April,	11	187 40	208,695	18.6	0	10,200	6,360	46,540	63,100	63,100	40,486,830	642	827	127.4	69,758,703	94,580,801
May,	1	3 30	2,836	13.5	0		150	1,150	1,300	1,300	550,184	423	564	133.6	47,156,017	53,306,801
June,	8	147 00	159,380	18.1	50	2,400	4,935	41,733	49,068	49,118	30,919,720	629	805	128.1	67,445,843	79,141,085
July,	23	484 00	533,034	18.3		6,000	15,940	136,000	157,940	157,940	103,408,596	655	834	127.5	69,599,236	80,827,231
August,																
September,	18	291 20	322,442	18.4	50	16,800	10,050	72,668	99,518	99,568	62,553,748	628	797	127.0	66,537,905	91,168,688
October,	18	310 10	348,885	18.8	0	9,000	10,710	86,190	105,900	105,900	67,683,690	639	815	127.7	76,561,571	94,069,734
November,	8	136 00	154,288	18.9	66	4,200	4,680	37,320	46,200	46,266	29,931,872	648	822	127.1	68,567,005	85,003,244
Totals and av.,	132	2467 45	2,752,344	18.6	266	63,600	82,695	673,898	820,193	820,459	533,954,736	651	829	127.4	70,340,235	85,638,002

TABLE C.

Location and Size of Pipe laid in 1888.

STREETS.	CAST IRON.						
	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, from 235 ft. south of Potomska south,						118	
Acushnet avenue, from 16.5 ft. north from south line Coggeshall to 3.5 ft. north from north line Nash road,				3981			
Acushnet avenue, from 3.5 ft. north from north line Nash road to 2.5 ft. south from south line Tarkiln Hill road,					5988		
Borden street, from 95 ft. west of Dartmouth east to Dartmouth,				129			
Bowditch street, from 74 ft. north of Cedar Grove north,							169
Brownell street, Court south,						158	
Campbell street, from 144 ft. west of Cottage west,						35	
Chancery street, Kempton south,						120	
Chancery street, from south line Hillman north,							12
Clinton street, from 126 ft. east of Orchard east,							72
Coffin avenue, from 1.0 ft. east from east line Bowditch east to Acushnet avenue,						528	
Coggeshall street, from 73 ft. east of Howard east,						48	
Cottage street, Campbell south,						83	
Cottage street, from 128 ft. north of Willis north,						59	
Cottage street, from 240 ft. north of Locust north,							120
County street, Coggeshall south,						109	
County street, from 26 feet north of Linden north,						141	
Court street, Tremont east,							321
Dartmouth street, Borden south,				41			
Dartmouth street, Borden to Washington,						59	
Dartmouth street, from 100½ ft. south of Thompson south to 17 ft. south of Rivet,					499		
Division street, from 996 ft. west of County west,						66	
Emerson street, Union south,							82
Elm street, from Palmer to Reed,						234	
Front street, Grinnell south,						14	

Location and Size of Pipe — *Continued.*

STREETS.	CAST IRON.						
	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Fruit street, Hemlock east,						151	
Grinnell street, Water to 16 ft. west from east line Prospect,				420			
Grinnell street, from 16 ft. west from east line Prospect east,					275		
Hemlock street, Rivet north,						200	
Hillman street, Chancery east,						105	
Howland Mill avenue,				2072			
" " street, A. (north)						272	
" " " B. (middle)						240	
" " " C. (south)					286		
James street, Union south,						121	
Katherine street, from 160 ft. west of County west,						426	
Locust street, from 287 ft. west of Cedar to Richmond,					27		
Maxfield street, from 2½ ft. west of Ash west,					89		
Merrimac street, Pleasant to Purchase,				240			
Mill street, from 138 ft. west of Florence west,						106	
Mill street, Park west,					189		
Palmer street, from 526 ft. south of Kempton to Elm,						30	
Park street, from 170 ft. south of Union south,					177		
Park street, from Kempton north to Mill,					198		
Parker street, Chancery west,					710		
Pine street, Water to Cross,						290	
Pleasant street, William north,	76						
Pleasant street, William south to 2 ft. south of south line William,			18			15	
Prospect street, Grinnell south,				25			
Prospect street, Grinnell north,					26		
Richmond street, Locust north,						140	
Richmond street, from 237 ft. north of Parker north,						71	
Rivet street, County to Mill avenue,				1816			
Rivet street, Dartmouth to Mill avenue,					1276		
Rockland street, Lombard east,					154		
Sawyer street, Purchase to Acushnet avenue,					1415		
School street, Second to Acushnet avenue,						221	
Second street, from 96 ft. south of Division south,					74		

Location and Size of Pipe — *Concluded.*

STREETS.	CAST IRON.						
	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Second street, from 233 ft. south of Blackmer south,					82		
Sisson street, Court south,						134	
Sixth street, from William street main north to 2 ft. north of north line William,						33	
Sixth street, William to Union,	408						
Sixth street, from Union street main south to 13 ft. south from south line Union,		30					
Smith street, from 415 ft. west of Emerson west,						47	
Union street, Ash west,						247	
Union street, Tremont to James,						297	
Union street, from pipe line Sixth to 2 ft. east of east line Sixth,				28			
Union street, from pipe line Sixth west,					19		
Warwick street, from 215 ft. south of Rockland south,							60
Weld street, County west,					82		
William street, from pipe line Pleasant to 15 ft. east of east line So. Pleasant,				41			
William street, Pleasant to Sixth,	258						
William street, from pipe line Sixth to 6 ft. west of west line Sixth,			15			19	
Winsor street, from 337 ft. west of County west,						118	
Totals,	742	30	33	8793	11566	5055	836

Taken Up.

STREETS.	CAST IRON.	CEMENT LINED.	
	4 in.	8 in.	4 in.
Front st., from pipe line Grinnell south,	14		
Grinnell st., Water to Prospect,	410		
Pine st., from Water to Cross,	266		
Pleasant st., from pipe line William to 2 ft. south from south line William,	16		
Prospect st., from pipe line Grinnell north,	26		
Prospect st., from pipe line Grinnell south,	25		
Sixth st., from 2 ft. north of north line William to 13 feet south of south line Union,			474
Union st., from 2 ft. east of east line Sixth to 5 ft. west of west line Sixth,		47	
William st., from 15 ft. east of east line South Pleasant to 6 ft. west of west line Sixth,			308
Totals,	757	47	782

Summary.

	30 in.	24 in.	20 in.	16 in.	12 in.	10 in.	8 in.	6 in.	4 in.
Previous to 1888:									
Cement,					6179	5722	7514	9342	20682
Cast iron,	1879	2373	5494	17595	3110	6371	43616	77635	79607
Cast iron laid in 1888,			742	30	33	8793	11566	5055	836
Total pipe laid,	1879	2373	6236	17625	9322	20886	62696	92032	101125
Cement removed 1888,							47		782
Cast iron removed 1888,									757
Total pipe now in use,	1879	2373	6236	17625	9322	20886	62649	92032	99586

Total length laid in 1888, 27,055 feet $= 5\frac{1240}{10000}$ miles.
Total length removed in 1888, 1586 feet $= 0\frac{3004}{10000}$ miles.
Total length now in use, 312,588 feet $= 59\frac{2022}{10000}$ miles.

TABLE D.

Small Size Distribution Pipe Laid in 1888.

STREETS.	LEAD.
	1 inch.
Mt. Pleasant court, Mt. Pleasant st. west,	145
Total,	145

Total length laid in 1888, 145 feet.
Removed in 1888, 137 feet.
Previously laid, 5812 feet.
Total length now in use, 5820 feet = $1\frac{102}{1000}$ miles.

TABLE E.

Location of Stop Gates Set in 1888.

STREETS.	LOCATION.	SIZE.					
		20 in.	16 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, north side Coggeshall,	0.9 foot north from north line Coggeshall; 17.7 feet east from west line Acushnet avenue,			1			
Acushnet avenue, north of Sawyer,	278 feet north from north line Sawyer west; 15.5 feet east from west line Acushnet avenue,			1			
Acushnet avenue, at hydrant,	574.5 feet north from north line Sawyer; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	5.5 feet south from south line Deane; 10.0 feet east from west line Acushnet avenue,					1	
Acushnet avenue, south side Deane	2.8 feet south from south line Deane; 15.0 feet east from west line Acushnet avenue,			1			
Acushnet avenue, north side Deane	6.1 feet north from north line Deane; 15.0 feet east from west line Acushnet avenue,			1			
Acushnet avenue, at hydrant,	1.4 feet south from south line Phillips avenue; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, south side Davis,	4.7 feet south from south line Davis; 15 feet east from west line Acushnet avenue,			1			
Acushnet avenue, at hydrant,	36.3 feet north from south line Davis; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	1.6 feet north from north line Hathaway avenue; 11.0 feet east from west line Acushnet avenue,					1	
Acushnet avenue, south side Nash road,	1.2 feet north from south line Nash road; 15.5 feet east from west line Acushnet avenue,			1			
Acushnet avenue, north side Nash road,	1.2 feet north from north line Nash road; 15.5 feet east from west line Acushnet avenue,			1			
Acushnet avenue, at hydrant,	2.5 feet north from north line Nash road; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	11.2 feet south from south line South Belleville road; 12.0 feet east from west line Acushnet avenue,					1	
Acushnet avenue, north side South Belleville road,	1.7 feet north from north line South Belleville road; 15.0 feet east from west line Acushnet avenue,				1		

LOCATION OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.					
		20 in.	16 in.	10 in.	8 in.	6 in.	4 in.
Acushnet avenue, at hydrant,	603.5 feet north from north line South Belleville road; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, south of Shaw,	39.2 feet south from south line Shaw; 15.0 feet east from west line Acushnet avenue,				1		
Acushnet avenue, at hydrant,	10.2 feet north from north line Shaw; 11.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	610 feet north from north line Shaw; 9.7 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	601 feet south from south line North Belleville road; 9.7 feet east from west line Acushnet avenue,					1	
Acushnet avenue, south side North Belleville road,	2.2 feet south from south line North Belleville road; 15.0 feet east from west line Acushnet avenue,				1		
Acushnet avenue, at hydrant,	5.7 feet north from north line North Belleville road; 9.7 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	600 feet north from north line North Belleville road; 9.5 feet east from west line Acushnet avenue,					1	
Acushnet avenue, north of North Belleville road,	886 feet north from north line North Belleville road; 15 feet east from west line Acushnet avenue,				1		
Acushnet avenue, at hydrant,	997 feet south from south line Tarkiln Hill road; 10 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	500 feet south from south line Tarkiln Hill road; 11 feet east from west line Acushnet avenue,					1	
Acushnet avenue, at hydrant,	3.2 feet south from south line Tarkiln Hill road; 15 feet east from west line Acushnet avenue,					1	
Borden street, west side Dartmouth,	On west line Dartmouth; 14.4 feet north from south line Borden,			1			
Brownell street, south side Court,	On south line Court; 18 feet east from west line Brownell,					1	
Dartmouth street, south side Washington,	On south line Washington; 16 feet east from west line Dartmouth,					1	
Dartmouth street, south side Rivet,	2.1 feet south from south line Rivet; 19.2 feet west from east line Dartmouth,				1		
Chancery street, south side Kempton,	1.0 foot south from south line Kempton; 14.3 feet east from west line Chancery,					1	

Location of Stop Gates — *Continued.*

STREETS.	LOCATION.	SIZE. 20 in.	16 in.	10 in.	8 in.	6 in.	4 in.
Chancery street, south side Hillman,	2.0 feet north from south line Hillman; 11.0 feet east from west line Chancery,						1
Coffin avenue, west side Acushnet avenue,	On west line Acushnet avenue; 18.0 feet north from south line Coffin avenue.					1	
Court street, east side Tremont,	On east line Tremont; 14.0 feet north from south line Court.						1
Front street, north side Grinnell,	1.5 feet south from north line Grinnell; 14.0 feet east from west line Front,						1
Front street, south side Grinnell,	On south line Grinnell; 14.5 feet east from west line Front,					1	
Grinnell street, east side Water,	0.5 foot east from east line Water; 14.7 feet north from south line Grinnell,			1			
Grinnell street, east side Prospect,	1.0 foot east from east line Prospect; 14.0 feet north from south line Grinnell,				1		
Howland Mill avenue,	0.2 foot south from south line Rivet west; 72.1 feet east of angle in Rivet street.			1			
Howland Mill avenue,	24 feet north from north line north house; 38.2 feet east from east line north house,			1			
Howland Mill street A.,	40.2 feet north from north line house No. 5; 34.4 feet east from east line house No. 5,					1	
Howland Mill street B.,	29.8 feet north from north line house No. 14; 15.3 feet east from east line house No. 14,					1	
Howland Mill street C.,	96 feet south from south line house No. 16; on east line house,				1		
Hemlock street, north side Rivet,	On north line Rivet; 14.0 feet east from west line Hemlock,					1	
Market street, east side Sixth,	On east line Sixth; 15.5 feet north from south line Market,						1
Merrimac street, west line Purchase,	7 feet east from west line Purchase; 15.8 feet north from south line Merrimac,			1			
Park street, north side Kempton,	On north line Kempton; 18 feet east from west line Park,				1		
Pine street, east side Water,	On east line Water; 14 feet north from south line Pine,					1	
Pleasant street, at hydrant,	21.5 feet north from north line William; 9.2 feet east from west line Pleasant,					1	

LOCATION OF STOP GATES — *Continued.*

STREETS.	LOCATION.	SIZE.					
		20 in.	16 in.	10 in.	8 in.	6 in.	4 in.
Pleasant street, south side William,	On south line William; 14 feet east from west line Pleasant,					1	
Pleasant street, north side William,	On north line William; 10.8 feet east from west line Pleasant,	1					
Prospect street, south side Grinnell,	0.5 foot south from south line Grinnell; 14 feet east from west line Prospect,			1			
Prospect street, north side Grinnell,	On north line Grinnell; 14 feet east from west line Prospect,				1		
Rivet street, east side Dartmouth,	On east line Dartmouth; 14 feet north from south line Rivet,				1		
Rivet street, west side Mill avenue,	On west line Mill avenue; 14 feet north from south line Rivet,				1		
Rivet street, east side Mill avenue,	70.3 feet east from west line Mill avenue; 14 feet north from south line Rivet,			1			
Rivet street, west side County,	On west line County; 14 feet north from south line Rivet,			1			
Rivet street, east side Bonney,	On east line Bonney; 14 feet north from south line Rivet,			1			
Sawyer street, east side Purchase,	0.5 foot east from east line Purchase; 15.5 feet north from south line Sawyer,				1		
Sawyer street, west side Acushnet avenue,	On west line Acushnet avenue; 17.8 feet north from south line Sawyer,				1		
School street, west side Second,	On west line Second; 14 feet north from south line School,					1	
Sisson street, south side Court,	On south line Court; 18.5 feet east from west line Sisson,					1	
Sixth street, north side Union,	3.5 feet north from north line Union; 11 feet east from west line Sixth,	1					
Sixth street, south side Union,	On south line Union; 13.8 feet east from west line Sixth,		1				
Sixth street, north side William,	On north line William; 13.5 feet east from west line Sixth,					1	
Union street, east side Sixth,	On east line Sixth; 16.9 feet north from north line Union,			1			
Union street, west side Sixth,	1.2 feet west from west line Sixth; 16.5 feet north from south line Union,				1		
Union street, west side Ash,	On west line Ash; 19.2 feet north from south line Union,					1	
Union street, west side Tremont,	0.5 foot west from west line Tremont; 18.4 feet north from south line Union,					1	

Location of Stop Gates — *Concluded.*

STREETS.	LOCATION.	SIZE.					
		20 in.	16 in.	10 in.	8 in.	6 in.	4 in.
Water street, north side Grinnell,	On north line Grinnell; 14 feet east from west line Water,					1	
Water street, south side Grinnell,	0.5 foot north from south line Grinnell; 14.6 feet east from west line Water,					1	
William street, east side Pleasant,	11.5 feet east from east line Pleasant south; 13.5 feet north from south line William,			1			
William street, west side Sixth,	1.3 feet east from west line Sixth; 14.7 feet north from south line William,				1		
	Totals,	2	1	18	15	34	4

Removed.

Grinnell street, east side Water,	4-inch
Pine street, east side Water,	4-inch
Pleasant street, at hydrant 52 feet north of William,	6-inch
Sixth street, north side William,	4-inch
Sixth street, north side Union,	4-inch
Sixth street, south side Union,	4-inch

Number of stop gates set in 1888,	74
Number removed in 1888,	6
	68
Number in use at date of last report,	547
Total number in use, Dec. 1st, 1888,	615

TABLE F.

Small sized Stop Gates set in 1888.

STREETS.	LOCATION.	SIZE. 2 in.	1 in.
Acushnet avenue, at watering cart hydrant,	4.4 feet north from north line South Belleville avenue; 7.5 feet east from west line Acushnet avenue,	1	
Acushnet avenue, at watering cart hydrant,	13.7 feet south from north line North Belleville avenue; 7.7 feet east from west line Acushnet avenue,	1	
Acushnet avenue, at watering cart hydrant,	11.9 feet north from south line Tarkiln hill road; 13.6 feet east from west line Acushnet avenue,	1	
Coffin ave., at watering cart hydrant,	16.5 feet west from west line Acushnet avenue; 8.0 feet north from south line Coffin avenue,	1	
Mt. Pleasant court, west side Mt. Pleasant,	On west line of Mount Pleasant; 7.0 feet north from south line Mount Pleasant court,		1
	Totals,	4	1

Number of small sized stop gates set in 1888,	5
Removed, Grinnell street, east side Prospect, 1 3-inch,	
Removed, Coffin avenue, at watering cart hydrant, 1 2-inch,	2
	3
Previously set,	59
Total number in use, December 1st, 1888,	62

TABLE G.

Private Stop Gates set in 1888.

STREETS.	LOCATION.	SIZE.			
		8 in.	6 in.	4 in.	3 in.
Grinnell, at City Manufacturing Co.,	244.7 feet east from east line Prospect; 18.2 feet north from south line Grinnell,		1		
Grinnell street,	At City Manufacturing Company's meter,		2		
Grinnell, at hydrant,	96.0 feet east from east line Prospect; 6.0 feet north from south line Grinnell,			1	
Howland mill,	73.0 feet east from east line house No. 7; 15.2 feet south from south line house No. 7,	1			
Howland mill,	At Howland mill meter,		3		
Parker street, at cemetery,	On north line Parker; 5.4 feet east from east line west gate-post,				1
Parker street, at cemetery,	7.2 feet north from south line Parker; 5.0 feet east from west line west gate-post,				1
Parker street, at cemetery,	10 feet west from east line west gate-post; 18.6 feet north from south line Parker,				1
Pine street, at Greene & Wood's,	40 feet east from west line Cross; 9.0 feet north from south line Pine,			1	
	Totals,	1	6	2	3

Number of private stop gates set in 1888,	13
Removed, High street at city stable, 4-in.,	1
Total set during 1888,	12
Previously set,	111
Total number in use, December 1, 1888,	123

TABLE H.

Waste Gates set in 1888.

STREETS.	LOCATION.	SIZE. 4 in.
Acushnet avenue, at Coggeshall,	4.0 feet north from north line Coggeshall; 21.0 feet east from west line avenue,	1
Acushnet ave., south of Belleville road,	214 feet south from south line No. Belleville road; 16.5 feet east from west line Acushnet avenue,	1
Acushnet ave., south of Tarkiln Hill road,	570 feet south from south line Tarkiln Hill road; 15.5 feet east from west line Acushnet avenue,	1
Bonney, at Rivet,	2.3 feet south from south line Rivet; 21.7 feet east from west line Bonney,	1
Parker, at Park,	19.7 feet west from west line Park; 7.4 feet north from south line Parker,	1
Pleasant, at William,	3.0 feet south from south line William; 17.2 feet east from west line Pleasant,	1
Pleasant, at William,	3.0 feet north from north line William; 17.9 feet east from west line Pleasant,	1
Union at Sixth,	4.4 feet west from west line Sixth; 19.6 feet north from south line Union,	1
	Total,	8

Number set during 1888,	8
Previously set,	54
Number in use, December 1st, 1888,	62

TABLE I.

Location of Hydrants set in 1888.

Acushnet avenue, west side, 574½ feet north of Sawyer.
Acushnet avenue, southwest corner Deane.
Acushnet avenue, southwest corner Phillips avenue.
Acushnet avenue, northwest corner Davis.
Acushnet avenue, northwest corner Hathaway avenue.
Acushnet avenue, northwest corner Nash road.
Acushnet avenue, west side, head of So. Belleville Road.
Acushnet avenue, west side, 603½ feet north of So. Belleville road.
Acushnet avenue, northwest corner Shaw.
Acushnet avenue, west side, 610 feet north of Shaw.
Acushnet avenue, west side, 601 feet south of No. Belleville road.
Acushnet avenue, west side, 6 feet north of No. Belleville road.
Acushnet avenue, west side, 600 feet north of No. Belleville road.
Acushnet avenue, west side, 997 feet south of Tarkiln Hill road.
Acushnet avenue, west side, 500 feet south of Tarkiln Hill road.
Acushnet avenue, southwest corner Tarkiln Hill road.
Acushnet avenue, west side, 158 feet north of Rivet.
Bowditch street, west side, 244 feet north of Cedar Grove.
Brownell street, west side, 74 feet north of Union.
Coggeshall street, south side, 117.5 feet east of Howard.
Dartmouth street, east side, 17.0 feet south of Rivet.
Division street, south side, 6.0 feet east of Crapo.
Elm street, southeast corner Reed.
Front street, southwest corner Grinnell.
Fruit street, south side, 126.5 feet east of Hemlock.
Howland Mill avenue, west side, 1027 feet south of Rivet.
Howland Mill avenue, northwest corner Howland Mill street A. (north).
Howland Mill street A. (north), south side, 246 feet west of Howland Mill avenue.
Howland Mill street B. (middle), south side, 227 feet west of Howland Mill avenue.
Howland Mill street C. (south), southwest corner of Howland Mill avenue.
Howland Mill street C. (south), south side, 256 feet west of Howland Mill avenue.
James street, west side, 102½ feet south of Union.
Katherine street, south side, 300½ feet east of Crapo.
Park street, west side, 263.0 feet north of Arnold.
Parker street, south side, at Oak Grove cemetery.
Pleasant street, west side, 21½ feet north of William.
Prospect street, northwest corner Grinnell.

Rivet street, southwest corner Hemlock.
Rivet street, southwest corner Bonney.
Rivet street, southeast corner Mill avenue.
Sawyer street, southwest corner Bowditch.
Sawyer street, southwest corner Acushnet avenue.
Sisson street, west side, 120 feet south of Court.
Smith street, south side, 5 feet east of Park.
Union street, southeast corner Emerson.
Union street, southwest corner Sixth.
William street, southwest corner Sixth.
Winsor street, 455½ feet west of County.

(The entire list, Post Hydrants.)

Taken Up.

Acushnet avenue, west side, 236 feet south of Potomska. Post.
Bowditch street, west side, 73 feet north of Cedar Grove. Post.
Coggeshall street, south side, 72 feet east of Howard. Post.
Division street, south side, 71½ feet east of Crapo. Post.
Katherine street, south side, 160½ feet west of County. Post.
Palmer street, northwest corner of Elm. Post.
Park street, west side, 165½ feet south of Union. Post.
Pleasant street, west side, 53 feet north of William. Post.
Prospect street, northwest corner of Grinnell. Flush.
Sixth street, southwest corner of William. Flush.
Smith street, south side, 404 feet west of Emerson. Flush.
Union street, southwest corner of Sixth. Double.
Winsor street, south side, 336½ feet west of County. Post.

Total number set during 1888,	48
Total number taken up during 1888,	13
To be added to total number last reported,	35
Number in use at date of last report,	410
Total number in use, Dec. 1, 1888,	445

TABLE J.

Statement of Work done by the Service Department, for the year ending Dec. 1, 1888.

KIND AND SIZE.	Number of Services.	Length on Taker.	Length on City.
Lead pipe, $\frac{1}{2}$-inch, heavy,	61	515.5	1257.0
" $\frac{5}{8}$-inch, heavy,	103	1306.7	2199.5
" $\frac{5}{8}$-inch, light,	58	747.0	1215.0
" $\frac{3}{4}$-inch, heavy,	3	28.0	29.0
" $\frac{3}{4}$-inch, light,	56	1032.7	1095.0
" 1-inch, heavy,	1	32.5	14.0
" 1-inch, light,	3	107.0	66.0
" $1\frac{1}{2}$-inch,		263.0	
Iron pipe, $\frac{3}{4}$-inch,		19.0	
" $1\frac{1}{2}$-inch,	1	184.0	
" 2-inch,	1	163.0	
" 3-inch,	2	848.0	
" 4-inch,	1	621.0	
" 6-inch,	1	379.0	
" 8-inch,		395.0	
Totals,	291	6641.4	5875.5

One 4-inch iron service was discontinued at old city stable on High st.

Extensions made to Services Previously Laid.

	Number.	Length.
Lead pipe, $\frac{5}{8}$-inch, heavy,	1	69.5
Cast iron pipe, 3-inch,	1	167.0
Totals,	2	236.5

Length of service pipe laid during the year, 12753.4 feet=$2\frac{4154}{10000}$ miles.
Total number of services in use December 1, 1888, 5785.

TABLE K.

METERS.

LOCATION.	PATTERN.	SIZE.
Acushnet Coöperative Association, 213 Acushnet ave.,	Ball & Fitts rotary.	1 inch.
Acushnet Mill,	Ball & Fitts rotary.	6 "
Henry H. Allen, Sixth street,	Crown.	1 "
John S. Allen, State street,	Ball & Fitts rotary.	"
John S. Allen, State street,	Ball & Fitts rotary.	"
Mrs. John Allen, 243 Purchase street,	Crown.	"
Timothy C. Allen, 188 Grinnell street,	Crown.	"
Mrs. Capt. Michael A. Baker, 22 Parker st.,	Ball & Fitts rotary.	"
Mrs. A. M. Blackler, 111 Summer street,	Ball & Fitts rotary.	"
Nazaire Boivin, 7 Hicks street,	Ball & Fitts rotary.	2 "
Nathan Brightman, 35 Smith street,	Crown.	"
Nathan Brightman, 107 Elm street,	Crown.	"
Daniel Briggs, 43 Bedford street,	Crown.	"
George E. Briggs, Dartmouth street,	Ball & Fitts rotary.	1 "
Albion T. Brownell, Madison and Fifth sts.,	Crown.	"
S. C. Caldwell, Pleasant and Hazard streets,	Ball & Fitts rotary.	"
S. C. Caldwell, Pleasant and Hazard streets,	Crown.	"
Central wharf,	Ball & Fitts.	2 "
Cemetery, Rural, Dartmouth street,	Crown.	2 "
Cemetery, Oak Grove, Parker street,	Crown.	3 "
Nathan Chase, County street,	Crown.	"
City Manufacturing Co., Grinnell street,	Ball & Fitts rotary.	6 "
City wharf,	Ball & Fitts.	2 "
Commercial wharf,	Ball & Fitts rotary.	3 "
Pardon Cornell, Sixth and Grinnell streets,	Crown.	1 "
Abner T. Davis, 34 Fifth street,	Ball & Fitts rotary.	"
Benj. Dawson, Purchase and Hazard streets,	Crown.	1 "
James Dowden, Mill street,	Ball & Fitts rotary.	"
David Duff & Son, Central wharf,	Crown.	1 "
David Duff & Son, Fish Island,	Ball & Fitts rotary.	1½ "
Electric Light Co., Middle street,	Ball & Fitts rotary.	2 "
Electric Light Co., School street,	Ball & Fitts rotary.	2 "
L. F. Fish, 59 Sycamore street,	Crown.	"
Simeon G. Folsom, Middle and Purchase sts.,	Ball & Fitts rotary.	1 "
T. J. Gifford, 34 Hillman street,	Crown.	"
T. J. Gifford, 32 Hillman street,	Crown.	"
Fred. S. Gifford, 186 Union street,	Crown.	1 "
Grinnell Mill, Kilburn street,	Ball & Fitts rotary.	4 "
James Groat, Purchase street,	Ball & Fitts rotary.	"
S. M. Hall, 161 Pleasant street,	Crown.	"
Henry F. Hammond, Mill street,	Crown.	"
Haskell & Tripp, William street,	Ball & Fitts rotary.	2 "
C. M. Haskell, Acushnet avenue,	Ball & Fitts rotary.	"
James C. Hathaway, Florence and Kempton streets,	Crown.	"
Hazard's wharf,	Ball & Fitts rotary.	2 "

METERS—*Continued.*

LOCATION.	PATTERN.	SIZE.
N. P. Hayes, William street,	Crown.	1 inch.
Benj. Howland's estate, 97 Grinnell street,	Crown.	½ "
Benj. Howland's estate, 134 Acushnet ave.,	Crown.	1 "
Geo. Howland's wharf,	Ball & Fitts rotary.	2 "
Paul Howland, 91 State street,	Ball & Fitts rotary.	¾ "
Howland Mill,	Ball & Fitts rotary.	6 "
James A. Jay, Second street,	Crown.	1 "
D. J. Kane & Bro., Union street,	Crown.	⅝ "
Tillinghast Kirby, 350 Cottage street,	Crown.	¾ "
C. W. Knight, 88 Purchase street,	Crown.	1 "
James M. Lawton, 80 State street,	Crown.	½ "
James M. Lawton, Union street,	Crown.	¾ "
E. R. Lewis, 321 Union street,	Crown.	1 "
Joseph Longfield, Emerson street,	Crown.	⅝ "
Clarence Lowell, 40 Fifth street,	Crown.	⅝ "
James Marquand, 35 Maxfield street,	Crown.	⅝ "
C. E. E. Mosher, High street,	Crown.	¾ "
Merrill's wharf,	Ball & Fitts.	2 "
Moynan & Co., Union street,	Ball & Fitts rotary.	3 "
Mt. Washington Glass Works, Prospect st.,	Ball & Fitts rotary.	2 "
William A. Murchie, 82 Chestnut street,	Crown.	¾ "
George Needham & Co., Union street,	Ball & Fitts rotary.	¾ "
New Bedford Manufacturing Co.,	Ball & Fitts rotary.	6 "
New Bedford Manufacturing Co., North st.,	Ball & Fitts rotary.	6 "
New Bedford Yacht Club, Pope's Island,	Ball & Fitts.	1 "
New England Embroidery Co., Hall's Court,	Union rotary.	3 "
Nichols & Damon, Purchase street,	Ball & Fitts rotary.	⅝ "
William F. Nye, Fish Island,	Crown.	1½ "
Leander P. Nichols, 59 Foster street,	Ball & Fitts rotary.	¾ "
Oneko Mills, Purchase street,	Ball & Fitts rotary.	6 "
Pairpoint Manufacturing Co., Prospect st.,	Ball & Fitts rotary.	3 "
E. C. Palmer, Florence street,	Crown.	⅝ "
J. W. Perry, Thomas street,	Crown.	¾ "
Henry Perry, County street,	Crown.	¾ "
P. & R. Coal and Iron Co. wharf,	Crown.	3 "
Thomas Pelan, 278 Kempton street,	Crown.	¾ "
George Pickens, Summer street,	Ball & Fitts rotary.	¾ "
Frank Pierce, 87 Mill street,	Crown.	¾ "
Joseph Poisson, 56 Mill street,	Crown.	⅝ "
William F. Potter & Co., Front street,	Crown.	1 "
Potomska Mills, Potomska street,	Ball & Fitts rotary.	6 "
Ezra Quimby, 135 Summer street,	Crown.	¾ "
Robeson Building, William street,	Crown.	½ "
Robeson Building, William street,	Crown.	½ "
Rotch's wharf,	Crown.	3 "
Salisbury & Viall, Cove street,	Ball & Fitts rotary.	¾ "
A. G. Stanton, Grinnell street,	Crown.	¾ "
Levi H. Sturtevant, 36 North street,	Ball & Fitts rotary.	1 "
W. D. Swan, Front street,	Ball & Fitts rotary.	2 "
Swan & Finch, Hastings' wharf,	Crown.	2 "
Taber, Read & Gardner, Acushnet avenue,	Crown.	1 "

METERS—*Concluded.*

LOCATION.	PATTERN.	SIZE.
Taber's wharf,	Ball & Fitts.	2 inch.
George M. Thatcher, Rockland street,	Crown.	1 "
Alfred Thornton, Union street,	Crown.	$\frac{5}{8}$ "
Theodore F. Tillinghast, Hicks street,	Crown.	$\frac{5}{8}$ "
W. C. Vaughan, 323 Purchase street,	Crown.	$\frac{5}{8}$ "
Vineyard Steamboat Co. wharf,	Crown.	3 "
William Walker, Maxfield and Summer sts.,	Crown.	$\frac{3}{4}$ "
William Walker, County and Campbell sts.,	Crown.	$\frac{3}{4}$ "
Wamsutta Mills, Acushnet avenue,	Ball & Fitts rotary.	8 "
Dr. Helen W. Webster, Purchase and Mill streets,	Equitable.	1 "
Benj. Winslow, Thompson and Warwick sts.	Crown.	$\frac{5}{8}$ "
Wordell Brothers, William street,	Crown.	3 "

Number of meters in use, December 1st, 1888, 108.

TABLE L.

Motors.

LOCATION.	USED FOR.	Size of Supply Pipe.
Acushnet Coöperative Association, 213 Acushnet avenue,	Grinding coffee.	1 inch.
Baptist church, William street,	Blowing organ.	2½ "
Nazaire Boivin, 7 Hicks street,	Circular saw.	2½ "
George E. Briggs, Dartmouth street,	Lathe.	1½ "
Central Union store, 5 North Sixth st.,	Grinding coffee.	1¼ "
C. S. & B. Cummings, 102 William st.,	Grinding coffee.	2 "
Benjamin Dawson, Purchase and Hazard streets,	Elevator.	1½ "
Driscol, Church & Hall, Union and First streets,	Elevator.	3 "
Fred. S. Gifford, 186 Union street,	Grinding coffee.	1 "
Haskell & Tripp, William street,	Elevator.	3 "
N. P. Hayes, William street,	Elevator.	1 "
James A. Jay, 13 South Second street,	Clipping machine.	1 "
D. J. Kane & Bro., Union street,	Book Bindery.	2 "
Dr. E. V. McLeod, Purchase and William streets,	Dentist.	⅝ "
Moynan & Co., Union street,	Elevator.	3 "
New England Embroidery Co., Hall's court,	Sewing machine.	3 "
F. B. Nesbett, 160 Purchase street,	Dentist.	⅝ "
North Congregational church, Purchase and Elm streets,	Blowing organ.	3 "
W. F. Potter & Co., Front & Union sts.,	Grinding coffee.	1 "
St. John Baptist church, Fifth st.,	Blowing organ.	2 "
W. D. Swan, Front street,	Wood turning.	3 "
Taber, Read & Gardner, Acushnet ave.,	Sewing machine lathe.	1 "
George M. Thatcher, Rockland street,	Lathe.	1 "
Trinitarian church, Fourth street,	Blowing organ.	2 "
Unitarian church, Union and Eighth sts.,	Blowing organ.	2 "
Dr. E. F. Ward, Union & Sixth sts.,	Sewing machine.	⅝ "
Wordell Bros., William street,	Sausage cutting.	2 "

Number of motors in use December 1st, 1888, 27.

TABLE M.

Watering Cart Hydrants.

Acushnet avenue, west side, 4.5 feet north from north line So. Belleville road.
Acushnet avenue, west side, 13.5 feet north from north line No. Belleville road.
Acushnet avenue, west side, 11.9 feet south from south line Tarkiln Hill road.
Allen street, north side, 154 feet east of Page.
Bedford street, south side, 86 feet west of Fourth.
Campbell street, south side, 87 feet west of Purchase.
Cedar Grove street, south side, 18 feet west of Acushnet avenue.
Coffin avenue, south side, 16.5 feet west of Acushnet avenue.
Court street, north side, 15 feet east of Ash.
Dartmouth street, east side, 13 feet south of Oak.
First street, west side, 118 feet south of School.
First street, west side, 28 feet south of Grinnell.
Grinnell street, south side, 31 feet east of County.
Hawthorn street, south side, 17 feet east of Cottage.
Hawthorn street, head of Tremont.
Hazard street, south side, 21 feet west of Purchase.
Kempton street, south side, 72 feet west of County.
Kempton street, south side, 102 feet east of Newton.
Kempton street, south side, 16 feet east of Rockdale avenue.
Linden street, south side, 30 feet west of Purchase.
Locust street, south side, 25 feet west of County.
Madison street, south side, 17 feet east of Fourth.
Madison street, south side, 39 feet west of County.
Mill street, south side, 9 feet west of Purchase.
Middle Point road, south side, 58 feet east of French avenue.
Mt. Vernon street, south side, 14 feet west of Mt. Pleasant.
Pleasant street, east side, 9 feet north of Mechanics lane.
Reynolds street, west side, 8 feet north of Linden.
Robeson street, south side, 38 feet west of Cedar.
Smith street, south side, 53 feet east of Park.
Summer street, west side, 4 feet north of Hillman.
Sycamore street, south side, 77 feet west of County.
Thompson street, south side, 72 feet west of Warwick.
Union street, south side, 65 feet west of County.
Water street, west side, 6 feet south of Blackmer.
William street, south side, 27 feet east of Second.
Willis street, south side, 7½ feet east of Acushnet avenue.

Number now in use, 37.

TABLE N.

Location of Hydrants.

	Pressure in lbs.
Acushnet avenue, southwest corner of Tarkiln Hill road. Post	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet. Post	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet. Post	53
Acushnet avenue, west side, north of No. Belleville road 600 feet. Post	53
Acushnet avenue, west side, north of No. Belleville road 6 feet. Post	54
Acushnet avenue, west side, south of No. Belleville road 601 feet. Post	55
Acushnet avenue, west side, north of Shaw 610 feet. Post	51
Acushnet avenue, northwest corner of Shaw. Post	47
Acushnet avenue, west side, north of So. Belleville road 603½ feet. Post	45
Acushnet avenue, west side, head of So. Belleville road. Post	42
Acushnet avenue, northwest corner of Nash road. Post	40
Acushnet avenue, northwest corner of Hathaway avenue. Post	40
Acushnet avenue, northwest corner of Davis. Post	41
Acushnet avenue, southwest corner of Phillips avenue. Post	39
Acushnet avenue, southwest corner of Deane. Post	48
Acushnet avenue, west side, north of Sawyer 574½ feet. Post	53
Acushnet avenue, southwest corner of Coggeshall. Post	56
Acushnet avenue, southwest corner of Cedar Grove. Post	54
Acushnet avenue, west side, south of Logan 335 feet. Post	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double	62
Acushnet avenue, west side, north of Wamsutta 372 feet. Post	60
Acushnet avenue, west side, south of Wamsutta 255 feet	63
Acushnet avenue, west side, at end of Wall street. Post	62
Acushnet avenue, southeast corner of Pope	64
Acushnet avenue, northwest corner of Willis	61
Acushnet avenue, west side, south of Campbell 179 feet	59
Acushnet avenue, northwest corner of Maxfield	57
Acushnet avenue, northwest corner of Kempton	47
Acushnet avenue, northeast corner of Elm	47
Acushnet avenue, northwest corner of School. Post	51

Acushnet avenue, northwest corner of Madison 55
Acushnet avenue, northwest corner of Russell 58
Acushnet avenue, northwest corner of Bedford 59
Acushnet avenue, west side, opposite Howland 61
Acushnet avenue, northwest corner of Potomska. Post 50
Acushnet avenue, west side, north of Rivet 158 feet. Post 59
Acushnet avenue, southwest corner of Blackmer 60
Allen street, southeast corner of Bonney 46
Allen street, northwest corner of Ward 41
Allen street, north side, east of Page 159 feet 38
Arch street, southwest corner of Union 24
Arnold street, south side, west of Orchard 96 feet. Post 22
Arnold street, southwest corner of Chancery 33
Arnold street, southeast corner of Atlantic 32
Ash street, northwest corner of Middle 27
Ash street, southwest corner of Morgan. Double 25
Ash street, northwest corner of Arnold 32
Ash street, northwest corner of Maple 34
Ash street, northwest corner of Bedford. Post 37
Ashland street, west side, head of Linden 11
Atlantic street, west side, 186 feet south of Arnold. Post 29
Atlantic street, west side, 390 feet north of Arnold. Post 30
Austin street, southeast corner of State. Post 42
Austin street, southwest corner of Purchase. Post 56
Austin street, southeast corner of Cedar. Post 19
Austin street, south side, on west line of Wilson. Post 20
Austin street, southwest corner of Ashland. Post 15
Austin street, southeast corner of Shawmut avenue. Post 14
Bay street, southeast corner of Ward. Post 39
Bedford street, southwest corner of Fifth 55
Bedford street, southeast corner of County 47
Bedford street, southeast corner of Orchard 37
Beach street, northwest corner of Kempton. Post 18
Blackmer street, south side, east of Front 575 feet. Post 63
Bonney street, northwest corner of Grinnell 51
Bonney street, northwest corner of Rockland. Post 54
Borden street, southwest corner of Bay. Post 42
Bowditch street, southwest corner of Weld. Post 56

Bowditch street, west side, 313 feet south of Cedar Grove. Post . . 55
Bowditch street, west side, north of Cedar Grove 244 feet. Post . . 55
Bridge avenue, north side, 44 feet west of draw 62
Bridge avenue, south side, 11 feet west of draw 62
Brownell street, west side, north of Union 74 feet. Post 24
Campbell street, south side, east of County 163 feet 28
Campbell street, southwest corner of Cypress. Post 19
Campbell street, south side, east of Emerson 205 feet 18
Cannon street, south side, east of Second 164 feet 64
Cedar street, northwest corner of Elm. Double 25
Cedar street, southwest corner of Kempton 26
Cedar street, west side, north of Mill 75 feet 23
Cedar street, southwest corner of Hillman 23
Cedar street, northwest corner of Sycamore 21
Cedar street, southwest corner of Campbell 18
Cedar street, southwest corner of Parker 19
Cedar Grove street, southeast corner of Front. Post 60
Cedar Grove street, southeast corner of Howard. Post 58
Cedar Grove street, south side, 383 feet west of Bowditch. Post . . 57
Cedar Grove street, northwest corner of Purchase. Post 56
Centre street, south side, east of Water 85 feet 56
Chancery street, west side, north of Arnold 406 feet. Post 33
Chancery street, southwest corner of Elm. Post 28
Chancery street, southwest corner of Hillman 29
Chancery street, west side, south of Parker 176 feet. Post 24
Chancery street, west side, 263 feet north of Parker. Post 16
Cherry street, southeast corner of Seventh 38
Chestnut street, southwest corner of North 19
Chestnut street, west side, north of Campbell 96 feet 22
Clark street, southwest corner of State 47
Clinton street, south side, east of Orchard 125 feet 26
Clinton street, south side, west of Ash 242½ feet. Post 44
Coffin avenue, southwest corner of North Purchase. Post 40
Coffin avenue, south side, opposite Oneko lane. Post 40
Coffin avenue, southeast corner of Bowditch. Post 40
Coffin street, north side, east of Water 262 feet. Post 62
Coggeshall street, south side, east of Howard 117.5 feet. Post . . . 64
Coggeshall street, southwest corner of Purchase. Post 53

Coggeshall street, southeast corner of County. Post 43
Commercial street, north side, east of Front 82 feet. Post 62
Cottage street, southwest corner of Bay. Post 43
Cottage street, northwest corner of Allen 42
Cottage street, northwest corner of Bedford 37
Cottage street, northwest corner of Hawthorn 31
Cottage street, southwest corner of Arnold 23
Cottage street, southwest corner of Union 22
Cottage street, southwest corner of Kempton. Post 22
Cottage street, northwest corner of Hillman 20
Cottage street, northwest corner of Sycamore 20
Cottage street, west side, 237 feet north of Locust. Post 20
County street, west side, 200 feet north of Coggeshall. Post 44
County street, west side, 234½ feet south of Clark. Post 43
County street, west side, 115 feet south of Weld. Post 42
County street, southwest corner of Austin. Post 33
County street, northwest corner of Locust 22
County street, northwest corner of Parker 23
County street, southwest corner of Smith 30
County street, southwest corner of Maxfield 25
County street, southwest corner of North 21
County street, southwest corner of Middle. Double 22
County street, southwest corner of Morgan 22
County street, northwest corner of Union 24
County street, west side, head of School 27
County street, northwest corner of Madison 32
County street, southwest corner of Hawthorn 36
County street, northwest corner of Allen 49
County street, southwest corner of Grinnell 60
County street, west side, head of South 60
County street, northwest corner of Rockland 61
County street, southwest corner of Thompson. Post 58
County street, northwest corner of Rivet. Post 57
County street, northwest corner of Winsor. Post 57
County street, west side, 71 feet north of Division. Post 54
County street, northwest corner of Cove road. Post 62
Court street, southwest corner of Orchard 22
Court street, south side, opposite Cedar 23

Court street, northwest corner of Ash. Post 20
Court street, south side, opposite Emerson 26
Court street, south side, west from Park street 304 feet 32
Court street, south side, head of Jenney. Post 23
Court street, south side, east of Reed 300 feet. Post 22
Cove street, south side, east of Water 487 feet 62
Cove street, south side, west of Water 334½ feet. Post 60
Cove street, southeast corner of County. Post 72
Crapo street, west side, south of Washington 343 feet 60
Crapo street, west side, south of Rockland 225 feet 63
Crapo street, west side, 160 feet south of Thompson. Post 58
Dartmouth street, east side, southwest of Orchard 110 feet 47
Dartmouth street, east side, 125 feet south of Hickory. Post 47
Dartmouth street, east side, 260 feet south of Rockland. Post . . . 45
Dartmouth street, east side, 99 feet south of Thompson. Post 44
Dartmouth street, east side, south of Rivet 17 feet. Post 45
Delano street, southwest corner of Water. Post 57
Delano street, southeast corner of Acushnet avenue. Post 57
Division street, southeast corner of Second. Post 61
Division street, south side, 527 feet west of County. Post 62
Division street, south side, east of Crapo 6 feet. Post 58
Durfee street, southwest corner of Cedar. Post 15
Durfee street, southwest corner of Bullock avenue. Post 17
Durfee street, southwest corner of Shawmut avenue. Post 12
Elm street, southwest corner of Pleasant 38
Elm street, southwest corner of Summer 18
Elm street, southeast corner of Reed. Post 20
Emerson street, southwest corner of Willis 19
Emerson street, southwest corner of Parker 18
Fifth street, southwest corner of school. Post 45
Fifth street, west side, south of Madison 245 feet 50
Fifth street, northwest corner of Wing. Post 59
Fifth street, northwest corner of Grinnell 61
First street, southwest corner of Spring 58
First street, west side, south of School 109 feet 57
First street, west side, south of Howland 185 feet 65
First street, west side, south of South 255 feet 63
Florence street, west side, north of North 180 feet. Post 26

Florence street, northwest corner of Mill. Post 24
Florence street, west side, south of Kempton 126 feet. Post 23
Florence street, southwest corner of Morgan. Post 29
Forest street, south side, west of County 90 feet 53
Foster street, southwest corner of Maxfield 37
Foster street, northwest corner of High 33
Fourth street, west side, north of School 106 feet 46
Fourth street, west side, south of Madison 210 feet 54
Fourth street, east side, opposite Washington. Post 57
Fourth street, northwest corner of Rockland 62
Fourth street, west side, south of Potomska 61 feet. Post 58
Franklin street, southwest corner of Pleasant 43
Franklin street, southwest corner of State. Post 38
French avenue, west side, south of Cove road 14 feet 60
Front street, west side, south of Washburn 319 feet 62
Front street, west side, south of Logan 383 feet. Post 63
Front street, southeast corner of Wamsutta. Post 65
Front street, southwest corner of Hazard's lane 61
Front street, southwest corner of Centre 61
Front street, west side, south of Commercial 86 feet 63
Front street, northwest corner of lane head of Merrill's wharf 65
Front street, west side, south of Howland 268 feet. Post 61
Front street, southwest corner of Grinnell. Post 62
Front street, west side, south of South 330 feet. Post 62
Front street, west side, north of Delano 191 feet. Post 62
Fruit street, south side, east of Hemlock 126.5 feet. Post 53
Grape street, south side, west of Lewis 131 feet. Post 36
Grape street, south side, west of Lewis 517½ feet. Post 34
Griffin street, southwest corner of Second 62
Grinnell street, south side, west of Acushnet avenue 76 feet 60
Grinnell street, south side, east of Crapo 103 feet 58
Grinnell street, southwest corner of Orchard. Post 50
Grove street, southwest corner of Anthony 32
Harrison street, southwest corner of Hickory. Post 48
Hawthorn street, southeast corner of Page 28
Hawthorn street, south side, east of Tremont 147 feet. Post 28
Hawthorn street, southwest corner of Brigham. Post 26
Hawthorn street, south side, 301 feet west of Brigham. Post 24

Hazard street, south side, west of State 140 feet 36
Hazard street, southwest corner of Pleasant 46
Hicks street, south side, east of Acushnet avenue 276 feet. Post . . 56
High street, south side, east of Acushnet avenue 43 feet. 48
High street, south side, east of County 177 feet 23
Hillman street, southwest corner of Second 57
Hillman street, southeast corner of Hill 32
Howland Mill avenue, west side, south of Rivet 1027 feet. Post . . . 59
Howland Mill avenue, northwest corner of Howland Mill street A. (north). Post 59
Howland Mill street A. (north), south side, west of Howland Mill avenue 246 feet. Post 55
Howland Mill street B. (middle), south side, west of Howland Mill avenue 227 feet. Post 55
Howland Mill street C. (south), southwest corner of Howland Mill avenue. Post 57
Howland Mill street C. (south), south side, west of Howland Mill avenue 256 feet. Post 55
Howland street, northeast corner of Second 63
Irving court, north end of court 25
James street, west side, south of Union 102½ feet. Post 28
Katherine street, south side, east of Crapo 300½ feet. Post 55
Kempton street, southwest corner of Pleasant. Post 36
Kempton street, south side, opposite Hill 28
Kempton street, southwest corner of Summer 19
Kempton street, southwest corner of Emerson 26
Kempton street, southwest corner of Park 28
Kempton street, southwest corner of Liberty 29
Kempton street, southeast corner of Jenney 26
Kempton street, south side, west of Hunter 50 feet. Post 21
Kempton street, southwest corner of Francis. Post 14
Kilburn street, north side, east of Front 244 feet. Post 62
Kilburn street, north side, east of Front 581 feet. Post 64
Liberty street, west side, south of Kempton 339 feet 30
Lincoln street, west side, south of Union 171 feet 23
Linden street, south side, west of State 13½ feet. Post 43
Linden street, south side, west of County 169 feet. Post 34
Linden street, south side, 67½ feet west of Reynolds. Post 24

Linden street, south side, 6½ feet east of Ashland. Post 14
Lindsey steet, west side, 173 feet south of Kempton. Post 27
Lindsey street, northwest corner of Morgan. Post 24
Locust street, southwest corner of Chestnut. Post 23
Locust street, southeast corner of Richmond. Post 15
Logan street, southwest corner of North Front 65
Logan street, south side, east of Acushnet avenue 400 feet 62
Logan street, southwest corner of Acushnet avenue 63
Lombard street, west side, 209½ feet south of Rockland. Post 50
Madison street, southwest corner of First 61
Maitland street, south side, west of Cedar 305 feet. Post 14
Maxfield street, southwest corner of Second. Post 58
Maxfield street, southwest corner of Pleasant. Post 38
Maxfield street, southeast corner of Chestnut 19
Maxfield street, southeast corner of Spruce 21
Maxfield street, southwest corner of Ash. Post 22
Mechanics lane, north side, east of Eighth street 206 feet 30
Merrimac street, southwest corner of State. Post 41
Middle street, southeast corner of Second 54
Middle street, southeast corner of Sixth. Double 36
Middle street, south side, east of Cedar 371 feet 32
Middle street, southeast corner of Chancery 29
Mill street, south side, west of Hill 191 feet 25
Mill street, south side, west of Ash 45 feet 25
Morgan street, southwest corner of Cottage 33
Mosher street, south side, west of County 517 feet. Post 59
Mt. Pleasant street, southeast corner of distributing reservoir 4
Mt. Pleasant street, west side, north of Durfee 572 feet 8
Mt. Pleasant street, northwest corner of Durfee. Post 12
Mt. Vernon street, south side, 359 feet west of Mt. Pleasant 6
Newton street, northwest corner of Elm. Post 29
North street, southeast corner of Second. Post 54
North street, southeast corner of Acushnet avenue 50
North street, northwest corner of Pleasant. Post 35
North street, southwest corner of Foster 35
North street, southwest corner of Park. Post 29
North street, southeast corner of Newton. Post 32
North street, southwest corner of Hunter. Post 22

Oak street, southwest corner of Harrison. Post 45
Ocean street, west side, 184½ feet south of Arnold. Post 32
Old Point road, west side, east of French avenue 650 feet 53
Orchard street, west side, head of Madison 27
Park place, south side, west of Sixth 306 feet 32
Park street, west side, south of Kempton 339 feet. Post 27
Park street, northwest corner of Court. Post 28
Park street, west side, north of Arnold 263 feet. Post 34
Parker street, south side Oak Grove Cemetery. Post 25
Parker street, southwest corner of Summer 27
Pearl street, southwest corner of Pleasant. Post 41
Penniman street, south side, west of State 220 feet 41
Pine street, northwest corner of Cross 65
Pleasant street, southwest corner of Market 37
Pleasant street, west side, north of William 21½ feet. Post 40
Pleasant street, east side, foot of Sycamore. Post 39
Pleasant street, northwest corner of Pope 42
Pleasant street, northwest corner of Austin 47
Pleasant street, southwest corner of Linden 48
Pleasant street, southwest corner of Weld. Post 48
Pope street, south side, opposite North Oak 32
Potomska street, A group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Potomska street 62
Prospect street, west side, south of Howland 157 feet 64
Prospect street, northwest corner of Grinnell. Post 63
Prospect street, west side, north of Potomska 324½ feet. Post 62
Prospect street, northwest corner of Potomska. Post 63
Purchase street, northwest corner of Deane. Post 43
Purchase street, west side, opposite Oneko Mill. Post 48
Purchase street, east side, opposite Clark. Post 58
Purchase street, west side, opposite Logan 58
Purchase street, northwest corner of Merrimac. Double 51
Purchase street, northwest corner of Pope 52
Purchase street, southwest corner of Pearl. Double 52
Purchase street, southwest corner of Campbell 47
Purchase street, west side, north of Maxfield 343 feet. Double . . . 46
Purchase street, southwest corner of Hillman. Double 43

Purchase street, southwest corner of Mill 42
Purchase street, northwest corner of Middle 40
Purchase street, northwest corner of Mechanics lane. Post 40
Purchase street, northwest corner of Union 43
Reynolds street, southwest corner of Weld. Post 26
Reynolds street, west side, 268 feet north of Weld. Post 29
Rivet street, southwest corner of Second 62
Rivet street, southwest corner of Bonney. Post 59
Rivet street, southwest corner of Hemlock. Post 51
Rivet street, southeast corner of Howland Mill avenue. Post 56
Robeson street, southwest corner of County. Post 26
Robeson street, southwest corner of Ashland. Post 15
Robeson street, southeast corner of Cedar. Post 21
Robeson street, south side, 365 feet west of Cedar. Post 17
Rock street, southwest corner of Washburn. Post 61
Rockland street, southeast corner of Hall. Post 56
Rockland street, south side, 13 feet west of Orchard. Post 54
Rockland street, southwest corner of Lombard. Post 50
Rounds street, northwest corner of Elm. Post 22
Russell street, south side, east of Fifth 92 feet 54
Sawyer street, southwest corner of Bowditch. Post 53
Sawyer street, southwest corner of Acushnet avenue. Post 59
Second street, northwest corner of Mill 55
Second street, west side, south of Elm 52 feet. Post 52
Second street, west side, south of Spring 74 feet 55
Second street, northwest corner of Coffin 61
Second street, west side, at head of Morgan's lane. Post 60
Second street, west side, north of Grinnell 61 feet 63
Second street, west side, north of Potomska 232 feet. Post 61
Second street, west side, south of Potomska 122 feet. Post 63
Second street, west side, 188 feet south of Blackmer. Post 59
Seventh street, southwest corner of Union. Post 31
Seventh street, west side, north of Madison 50 feet 36
Sherman street, south side, west of County 314 feet 51
Sisson street, west side, south of Court 120 feet. Post 23
Sixth street, southwest corner of School 37
Sixth street, northwest corner of Madison 42
Sixth street, southwest corner of Russell 47

Sixth street, northwest corner of Wing 56
Sixth street, west side, north of Grinnell 194 feet 59
Smith street, southwest corner of Chestnut. Double 22
Smith street, southeast corner of Spruce. Double 20
Smith street, southeast corner of Emerson 22
Smith street, south side, east of Park 5 feet. Post 29
South street, southwest corner of Acushnet avenue 62
South street, southwest corner of Second 62
South street, southwest corner of Prospect 64
Spring street, southeast corner of Acushnet avenue. Post 51
Spring street, southwest corner of Seventh 32
Spring street, southeast corner of Fifth 42
State street, northwest corner of Sycamore 35
State street, southwest corner of Pearl 34
Summer street, northwest corner of North 16
Summer street, northwest corner of Hillman 16
Summer street, southwest corner of Willis 26
Sycamore street, southwest corner of Thomas 30
Sycamore street, southwest corner of Summer 24
Sycamore street, south side, west of Ash 68 feet 22
Taber's wharf, south side, north of Union 36 feet 63
Thomas street, northwest corner of Hillman 24
Thompson street, south side, 20 feet east of Hall. Post 58
Tremont street, southwest corner of Union. Post 26
Tremont street, west side, south of Arnold 287 feet 29
Union street, southwest corner of Water. Double 57
Union street, southeast corner of Second 52
Union street, southwest corner of Acushnet avenue. Double 48
Union street, southwest corner of Sixth. Post 38
Union street, southeast corner of Emerson. Post 28
Union street, south side, 344 feet west of Park. Post 28
Walden street, southwest corner of Maxfield 31
Wall street, south side, east of Acushnet avenue 165 feet 62
Walnut street, northwest corner of Front. Post 61
Walnut street, southwest corner of Second 57
Walnut street, southeast corner of Fourth. Double 51
Walnut street, southwest corner of Seventh. Post 38
Wamsutta street, south side, west of Front 200 feet. Post 65

Wamsutta street, south side, west of Front 372 feet. Post 65
Wamsutta street, south side, east of Acushnet avenue 285 ft. Double. 64
Washburn street, southeast corner of Acushnet avenue 59
Washburn street, south side, west of North Front 228 feet 59
Washington street, southeast corner of Crapo 58
Washington street, south side, west of Orchard 102 feet 50
Washington street, southeast corner of Dartmouth 46
Water street, southwest corner of Hillman 65
Water street, southwest corner of North. Post 64
Water street, west side, south of North 258 feet 63
Water street, northwest corner of Middle. Double 62
Water street, southwest corner of Elm 60
Water street, west side, north of Centre 46 feet 50
Water street, west side, north of School 22 feet 60
Water street, northwest corner of Walnut 61
Water street, northeast corner of City wharf 62
Water street, northwest corner of Coffin 64
Water street, west side, head of Pine. Post 67
Water street, west side, head of Leonard. Double 63
Water street, northwest corner of Howland 64
Water street, northwest corner of Grinnell 63
Water street, northwest corner of South 62
Water street, west side, north of Potomska 31 feet 64
Water street, northwest corner of Rivet 63
Water street, southwest corner of Blackmer 62
Water street, southwest corner of Delano 62
Water street, west side, south of Division 285 feet 62
Water street, southwest corner of Cove 61
Weld street, southwest corner of State. Post 43
William street, southwest corner of Bethel 51
William street, southeast corner of Acushnet avenue 47
William street, southwest corner of Sixth. Post 38
William street, southwest corner of Eighth 26
Willis street, southeast corner of Pleasant. Post 41
Willis street, southwest corner of State 32
Willis street, south side, 42½ feet east of Willis court. Post 27
Willis street, southwest corner of Cottage. Post 19

Willis street, south side, west of Cedar 200 feet 18
Wing street, southwest corner of Fourth 57
Winsor street, south side, west of County 455½ feet. Post 58

Number of flush hydrants, ... 210
Number of post hydrants, ... 235

Total number of hydrants, ... 445

Summary of Statistics.

REPORT OF 1888.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED BY THE

New England Water Works Association.

New Bedford Water Works, Bristol Co., Mass.

Population by census of 1885,
33,393

Date of construction,
1866 to 1869, inclusive.

By whom owned,
The property of the city of New Bedford.

Source of supply,
From a storing reservoir artificially formed by constructing a dam across the valley of the Acushnet river, seven miles north of the centre of the city.

Mode of supply,
By gravitation into the city, thence pumped into a distributing reservoir on an elevated site.

PUMPING.

1. Builders of pumping machinery,
   - *a.* McAlpine engine, built by Quintard Iron Works.
   - *b.* Worthington engine, built by Henry R. Worthington.
   - *c.* High duty Worthington engine, built by Henry R. Worthington.

2. Description of coal used,

First Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, "Lindermann's" sugar loaf Lehigh.
e. Price per gross ton delivered, $5.48.
f. Percentage of ash, $11\frac{9}{10}$.
g. Wood, price per cord, $3.80.

Second Contract.

a. Anthracite.
b. Not applicable.
c. Size, egg.
d. Brand, "Old Company's" Lehigh.
e. Price per gross ton delivered, $5.89.
f. Percentage of ash, $10\frac{2}{10}$.
g. Wood, price per cord, $4.00.

	McAlpine.	Worthington.	High Duty Worthington.
3. Coal consumed for the year, in pounds,	812,135	494,912	820,193
4. $\frac{\text{Lbs. of wood consumed in pounds,}}{8}$ = coal	634	267	266
5. Total fuel consumed for the year, (3) + (4),	812,769	495,179	820,459
6. Total pumpage for the year, in gallons,	471,008,048	227,035,848	533,954,736
7. Av. static head against which pumps work,	125.7	125.0	125.3
8. Av. dynamic head against which pumps work,	136.1	128.5	127.4
9. *a.* Number of gallons pumped per pounds of coal (3),	580	459	651

b. Number of gallons raised 100 feet per pound of coal for total coal (3),

789 589 829

10. Duty, in foot lbs. per 100 pounds of coal, using following formula, making no deductions for starting, banking fires, heating building, or anything else:

65,764,214 49,123,434 70,340,235

$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (80)}}{\text{Total fuel consumed (5)}}$$

COST OF PUMPING FIGURED ON PUMPING STATION EXPENSES, VIZ.: $10,877.91.

11. Per million gallons raised against average dynamic head (8) into reservoir,

$8.83

12. Per million gallons raised one foot high (dynamic),

$.06\frac{7437}{10000}$ cents.

COST OF PUMPING FIGURED ON TOTAL MAINTENANCE (see Financial CC.), VIZ.: $77,548.84.

13. Per million gallons raised against average dynamic head (8) into reservoir,

$62.94

14. Per million gallons raised one foot high (dynamic),

$.48\frac{076}{1000}$ cents.

FINANCIAL.

MAINTENANCE.

RECEIPTS.		EXPENDITURES.	
From consumers:			
A. Water rates, domestic,	$44,168.18	AA. Management and repairs,	$31,248.84
B. Water rates, manufacturing,	5,367.36	BB. Interest on bonds,	46,300.00
C. Net receipts from water,	$49,535.54	CC. Total maintenance for year,	$77,548.84
D. Miscellaneous (rents, repairs, etc.),	348.00	Bonds paid,	30,000.00
E. Total,	$49,883.54	DD. Balance to construction,	30,634.70
From public funds:			
J. General appropriation, water,	12,000.00		
General appropriation, debt,	76,300.00		
K. Gross receipts from all sources,	$138,183.54	KK. Total,	$138,183.54

CONSTRUCTION.

RECEIPTS.			EXPENDITURES.			
R.	Balance from previous year,	$23,430.65	FF.	Extension, mains,		$47,898.83
	Balance from maintenance,	30,634.70 $54,065.35	GG.	Extension, services,		
S.	Bonds issued,	20,000.00		*a.* Services,	$5,940.85	
U.	Other sources (service private lines, meters, etc.),	5,420.32		*b.* Fountains, meters,	1,286.16	7,227.01
V.	Total,	$79,485.67	HH.	Special extensions,		1,734.34
			II.	Total construction for year,		$56,860.18
			JJ.	Balance,		22,625.49
			KK.	Total,		$79,485.67

W.	Net cost of works to this date,	$1,355,320.94
X.	Bonded debt at this date, $680,000, trust fund, $100,000 =	780,000.00
Y.	Sinking fund,	618.79
Z.	Average rate of interest,	$5\frac{74}{100}$ per cent.

CONSUMPTION.

1. Estimated total population at date,
   37,500
2. Estimated population on lines of pipe at date,
   33,550
3. Estimated population supplied at date,
   31,826
4. Total number gallons consumed for year,
   1,231,998,632
5. Passed through domestic meters,
   4,286,394 gallons, or $0\frac{35}{100}$ per cent.
6. Passed through manufacturing meters,
   157,904,641 gallons, or 13 per cent.
7. Average daily consumption, in gallons,
   3,319,707
8. Gallons per day to each inhabitant (1),
   88
9. Gallons per day to each consumer (3),
   104
10. Gallons per day to each tap (distribution 22),
    574

DISTRIBUTION.

MAINS.

1. Kind of pipe used,
   Wrought iron cement-lined, and cast iron.
2. Size,
   From 4 to 30 inches.
3. Extended,
   25,469
4. Discontinued,
   1586
5. Total now in use,
   $59\frac{2023}{10000}$ miles.
6. Cost of repairs per mile,
   $14.66
7. Number of leaks for the year,
   12
8. Small distribution pipes, less than 4 inches, total length,
   5820
9. *a*. Fire hydrants added,
   35

b. Watering cart connections added, 3

10. *a*. Number of fire hydrants now in use, 445

b. Number watering cart hydrants now in use, 37

11. Stop gates added, 68

12. Number now in use, 615

13. Small stop gates, less than 4 inches, total, 62

14. Number of blow-off gates, 62

15. Range of pressure at centre for day and night, 31 lbs. to 40 lbs.

SERVICES.

16. Kind of pipe used, Lead and cast iron.

17. Size, From ½ to 8 inches.

18. Extended, 12,753

19. Discontinued, 1

20. Total now in use, About $34\frac{2}{10}$ miles.

21. Service taps added, 291

22. Number now in use, 5785

23. Average length of service, 43.8

24. Average cost of service, Gross, $20.42
Net, 3.26

25. Meters added, 8

26. Number now in use, *a*. Domestic, 63
b. Manufacturing, 45

27. Motors and elevators added, 1

28. Number now in use, 27

In Board of Aldermen,
February 14, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
2d mo. 14, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

1889—City Document No. 4.

Thirty-Seventh Annual Report

OF THE

TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

City of New Bedford,

MASS.

NEW BEDFORD:
Mercury Publishing Company, Printers to the City.
1889.

Officers of the Free Public Library

FOR THE YEAR 1889.

TRUSTEES.

Ex-Officio. Terms expire January, 1890.

WALTER CLIFFORD, Mayor of the City.
WILLIAM A. TUCKER, President of the Common Council.
LUTHER G. HEWINS, JR., Chairman of the Committee of the City Council on Public Instruction.

Elected by the City Council.

LEONARD B. ELLIS,	Term expires April, 1889.
ARTHUR G. GRINNELL,	Term expires April, 1889.
GEORGE H. DUNBAR,	Term expires April, 1890.
GEORGE HOWLAND, JR.,	Term expires April, 1890.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1891.
MATTHEW C. JULIEN,	Term expires April, 1891.

PRESIDENT OF THE BOARD.
THE MAYOR.

CLERK.
GEORGE H. DUNBAR.

COMMITTEES.

On the Library—The Mayor, Messrs. Howland, Tucker, and Julien.
On the Building—Messrs. Tompkins, Hewins, and Ellis.
On Binding and Blanks—Messrs. Dunbar and Grinnell.

SUPERINTENDENT OF THE LIBRARY.
GEORGE H. DUNBAR.

LIBRARIAN.
ROBERT C. INGRAHAM.

ASSISTANT LIBRARIAN.
WILLIAM L. R. GIFFORD.

ASSISTANTS.
JOSEPHINE A. MERRICK, MARY E. BROWN,
SUSIE H. GAMMONS.

JANITOR.
YORICK W. AMES.

REPORT.

To the City Council of the City of New Bedford:

GENTLEMEN,—It is a pleasure to report to you the condition and improvements made in the Public Library during the past year. Although the management and methods have been the same as heretofore, yet the distribution of books has increased and there have been more patrons in the reading room. This is made far more attractive by hanging on the walls portraits of former eminent citizens, who by their ability and liberality have made New Bedford well known in the history of the country; photographs of houses and places that a few years hence will hardly be recognizable on account of the growth and change in our city; and maps and drawings showing these changes from 1795 up to the present time. The memorial tablet of the late Sylvia Ann Howland is now placed where it can be seen by all. Since the library is naturally a repository of books and learning, we would like to make it one of pictures, and of historical and classical interests as well; and we would be glad to adorn the walls with mementos of early New Bedford and its citizens.

Early in the year special shelves were put up in the reading room for holding reference books, which readers might use without applying to the assistants at the desk; and later the cabinet for holding the card catalogue was made and placed in the centre of the room. When the public have become accustomed to the simple method of using this catalogue, its convenience and superiority over the

former catalogue and its various supplements will be fully appreciated. At certain hours the reading chairs are well occupied, and the newspaper files are in good demand.

In the number of volumes and pamphlets we have had an increase of three thousand one hundred thirty-seven during the year, making a total of over fifty-three thousand; of these, fiction and juveniles comprise about six per cent. of the whole. There have been taken from the library in the past twelve months sixty-eight thousand nine hundred thirty-nine books, or a daily average of two hundred twenty-five. About one hundred seventy-five periodicals are received, most of which are placed upon the reading room tables; the others, being of interest to specialists only, may be had on application at the desk. In addition to these there are fifteen newspapers on files. There have been during the year two hundred seventy-eight volumes bound, and two hundred seven rebound. The librarian has sent out seventy-six notices for books overdue. Four hundred twenty volumes have been worn out and rejected. The volumes that were overcrowded and awaiting shelf-room have now been arranged on a movable system, which in connection with the card catalogue enables them to be located and changed without any inconvenience or delay, thus greatly facilitating their delivery; they will be numbered as soon as possible.

We may have a few books that are maliciously injured; but, doubtless, a great many suffer from carelessness. Some people seem to think that when they take out a book and hold themselves responsible for its safety, they have a right to make marginal notes and to mark what perchance may be of future use to themselves or others; it is not their book for the time being, and they have no right whatever to deface it.

Our principal gift of the past year was by the liberality of the late George O. Crocker, who bequeathed $10,000 to the

library, the income of which is in no way restricted, but is to be used as the Trustees deem most advantageous. We have received collections of volumes and pamphlets from Hon. George Howland, Jr., and Henry Willey, Esq.; several MS. volumes of whaling records, kept by the late Dennis Wood, from Samuel H. Cook, Esq.; and also through Mr. J. A. P. Allen, as a bequest from Mrs. Wm. H. Allen, a wax medallion portrait of Hon. Caleb Strong, the well known Federalist governor of Massachusetts. From the Royal Society of Canada we have continued to receive their Proceedings and Transactions. In the appendix will be found the names of others who have kindly increased our list of valuable books and pamphlets.

APPENDIX.

FINANCIAL STATEMENT CONCERNING THE FREE PUBLIC LIBRARY FOR 1888.

STATEMENT OF THE LIBRARIAN.

1888.			
Jan 1.	Cash on hand,	$76.31	
	Paper stock,	4.35	
	143 fiction catalogues,	35.75	
	Fines,	218.53	
	Books destroyed and paid for,	1.72	$336.66
	Paid for expressage, freight, and jobbing,	$39.71	
	P. O. box and postage,	28.99	
	Books,	2.27	
	Binding and paper cutting,	19.85	
	Stationery,	43.92	
	Incidentals,	132.14	
1889, Jan. 1.	Balance in hands of librarian,	69.78	$336.66

FREE PUBLIC LIBRARY ACCOUNT.

1888, Jan. 1.	Bills approved January,	$434.58	
	February,	417.34	
	March,	766.70	
	April,	516.80	
	May,	431.78	
	June,	471.32	
	July,	455.74	
	August,	457.09	
	September,	480.22	
	October,	464.59	
	November,	429.50	
	December,	526.22	$5851.88
1888, Jan. 1.	Annual appropriation,	$5400.00	
	Transfer,	451.88	$5851.88

TRUST FUND ACCOUNT.

1888.			
Jan. 1.	Sylvia Ann Howland fund,	$9,649.45	
	George Howland, Jr., fund,	406.53	
	Charles W. Morgan fund,	481.17	
	Oliver Crocker fund,	262.90	
	James B. Congdon fund,	290.37	
	Dog fund,	625.23	$11,715.65

SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND.

1888.			
Jan. 1.	Unexpended balance of income,	$9,649.45	
July 1.	Six months' interest,	1,500.00	
Dec. 31.	Six months' interest,	1,500.00	$12,649.45

Bills approved for books, periodicals, and binding, viz.:

January audit,	$422.83	
February,	275.07	
March,	235.12	
April,	495.67	
May,	440.13	
June,	512.63	
July,	307.22	
August,	175.24	
September,	234.70	
October,	338.15	
November,	311.63	
December,	706.61	$4455.00

The detailed statement of the expenditures from the income of this fund is as follows:

Academy of Natural Sciences,	$5.00
Allyn & Bacon,	15.53
Allyn, John,	1.85
American Chemical Journal,	3.00
American Journal of Mathematics,	5.00
American Journal of Philology,	3.00
Anthony, E. & Sons,	6.00
Appleton, D. & Co.,	5.40
Armstrong, A. C. & Son,	3.00
Balch Bros. & Graham,	10.50
Bancroft Whitney Co.,	12.00

Bittinger, J. O.,	$3.65
Boston Society of Natural History,	7.00
Bowker, R. R.,	5.00
Cambridge Entomological Society,	5.00
City Treasurer,	126.00
Clark, A. S.,	8.72
Clarke, Robert & Co.,	1.50
Clark & Carruth,	4.36
Conant, Fred. O.,	5.00
Coöperative Newspaper Society,	2.25
Dante Society,	10.00
Dawson, H. B.,	3.00
Dews, Edwin,	425.59
Electrical World,	3.00
Ellis, George H.,	2.00
Essex Institute,	7.50
Francis, D. G.,	22.05
Garrison, Martin & Co.,	5.00
Gately & Co.,	10.00
Goss, F. B. & F. P.,	2.00
Harper, F. P.,	7.12
Harvard Monthly,	2.00
Henry, J. B.,	1.50
Hickox, J. H.,	5.00
Historic Society of Penn.,	5.00
Houghton, Mifflin & Co.,	3.50
Hutchinson, H. S. & Co.,	863.66
Inman, H. S.,	11.00
Jackson, Wm.,	3.00
Kane, D. J. & Bro.,	45.10
Lamb, J. H., Agent,	6.00
Lawrence, L. L.,	1.00
Lawton, J. M., Jr.,	821.10
"Lend a Hand" Pub. Co.,	2.00
Little, Brown & Co.,	957.72
Littlefield, George E.,	245.82
Mass. Historical Society,	8.50
McDonough, J.,	10.35
Mercury Pub. Co.,	6.00
Middlesex Institute,	1.00
Modern Language Notes,	1.50
Munsell's Sons,	6.05
Narragansett Histor. Pub. Co.,	2.00
New Haven Colony Histor. Society,	5.00
N. Y. Shakspeare Society,	2.50
Nichols. C. A. & Co.,	5.00

Noyes, H. D. & Co.,		$23.85	
Parsons, J. D., Jr.,		4.50	
Peet, S. D.,		8.00	
Poor, H. V. & H. W.,		8.00	
Publishers' Weekly,		1.50	
Q. P. Index,		3.50	
Randolph & English,		5.00	
Raymond, E. P.,		3.00	
Roffe, A. H. & Co.,		215.00	
Sampson, Murdock & Co.,		5.00	
Schoenhof, Carl,		157.81	
Scranton, S. S. & Co.,		1.50	
Scribner's Sons,		22.50	
Scudder, S. H.,		15.00	
Shakspeare Society,		2.50	
Shea, J. G.,		5.00	
Stechert, G. E.,		16.10	
Studies in Histor. & Polit. Science,		4.00	
Taylor, T. J.,		28.15	
Thurston, B. & Co.,		15.00	
Ticknor & Co.,		15.00	
U. S. Patent Office,		62.40	
Waldron, C. D.,		3.00	
Wilbor, G. H.,		3.75	
Willey, H.,		5.00	
Wilson, E. L.,		3.46	
Winslow, W. C.,		15.00	
Woodward, C. L.,		2.00	
Wright, W. C.,		20.00	
Zahm, S. H. & Co.,		23.16	$4455.00

GEORGE HOWLAND, JR., FUND.

1888.				
Jan. 1.	Unexpended balance of income,		$406.53	
	One year's interest,		96.00	
			$502.53	
	H. S. Inman,	$210.00		
	Chas. Taber & Co.,	200.00	410.00	$92.53

CHARLES W. MORGAN FUND.

1888.				
Jan. 1.	Unexpended balance of income,		$481.17	
	One year's interest,		60.00	
			$541.17	
	Little, Brown & Co.,	$195.03		
	E. Muybridge,	100.00	295.03	$246.14

OLIVER CROCKER FUND.

1888.				
Jan. 1.	Unexpended balance of income,		$262.90	
	One year's interest,		60.00	
			$322.90	
	Academy of Nat. Sciences,		30.00	$292.90

JAMES B. CONGDON FUND.

1888.				
Jan. 1.	Unexpended balance of income,		$290.37	
	One year's interest,		30.00	$320.37

DOG FUND.

1888.				
Jan. 1.	Unexpended balance,		$625.23	
Feb.	Received from County Treasurer,		987.69	
			$1612.92	
	Paid Y. W. Ames, janitor,	$540.00		
	Briggs & Lawrence, furniture,	49.00		
	C. F. Borden, catalogue drawers,	78.85		
	S. H. Cook, insurance,	187.50		
	L. Grinnell, insurance,	187.50	1042.85	$570.07

GEORGE O. CROCKER FUND.

Interest,		$271.11	
Paid C. F. Borden,		45.57	$225.54

Total unexpended balance in the control of the Board of Trustees:

1889, Jan. 1.	Sylvia Ann Howland fund,	$8194.45	
	George Howland, Jr., fund,	92.53	
	Charles W. Morgan fund,	246.14	
	Oliver Crocker fund,	292.90	
	James B. Congdon fund,	320.37	
	George O. Crocker fund,	225.54	
	Dog fund,	570.07	$9942.00

GEORGE H. DUNBAR, Clerk.

GIFTS, 1888.

	Volumes.	Pamphlets.
Allen, Mrs. William H., city, ... Portrait.		
American Antiquarian Society, Worcester, Mass., . .		3
American Philosophical Society, Philadelphia, Penn.,		1
Ames, John G., Washington, D. C., ...		1
Ames Free Library, North Easton, Mass., ...		1
Amherst College, Amherst, Mass., ...		1
Anthony, Edmund & Sons, city, ...	1	
Appleton, D. & Co., New York City, ...	1	
Apprentices' Library, New York, ...	1	
Apprentices' Library Company, Philadelphia, Penn.,		1
Arber, Prof. Edward, Birmingham, Eng., ...		1
Astor Library, New York, ...		1
Ayer, J. C. & Co., Lowell, Mass., ...	1	
Bancroft Whitney Co., San Francisco, Cal., ...	1	
Board of Trade, Grand Rapids, Mich., ...	1	
Boston Municipal Government, ...	2	
Boston Public Library, ...		3
Bradlee, Rev. Caleb D., Boston, Mass., ...	1	6
Brayton, John S., Esq., Fall River, ...		1
Bridgeport Public Library, Bridgeport, Conn., . . .		1
Brookline Public Library, Brookline, Mass., ...		2
Brooklyn Library, Brooklyn, N. Y., ...		1
Brownell, Frank T., New York City, N. Y., ...	2	
Buckminster, Joseph, city, ...	6	3
Buffalo Library, Buffalo, N. Y., ...		1
Chase, Ariel, city, ...	2	
Christian Science Publishing Society, Boston, Mass., .	1	
Cincinnati Public Library, Cincinnati, Ohio, ...		4
Cobden Club, London, Eng., ...	5	23
Coggeshall, R. C. P., city, ...	3	2
Coles, Abraham, Newark, N. J., ...	1	
Columbia College, New York City, N. Y., ...		1
Commissioners of the State Reservation at Niagara, Albany, N. Y., ...		1
Commonwealth of Massachusetts, Boston, Mass., . .	11	3

Cook, Samuel H., city,	5 MSS.	
Coolidge, T. Jefferson, Manchester, Mass.,	1	
Cooper Union, New York,		1
Cox, John, city,	6	
Crapo, William W., city,	4	
Cutter, Abram E., Charlestown, Mass.,		1
Deane, L., Washington, D. C.,		1
Detroit Public Library, Detroit, Mich.,		1
Dexter, Franklin B., New Haven, Conn.,		1
Doran, Joseph I., Philadelphia, Penn.,		1
Dunbar, George H., city,	2	1
Durand, John, New York City,		1
Eclectic Medical College, New York, N. Y.,		2
Emery, Edwin, city,		16
Emery, William M., Brunswick, Maine,	2	1
Ernst, Carl W., Boston, Mass.,		1
Fall River Public Library, Fall River,		1
Farrington, William H., New York,		11
Faxon, Henry H., Boston,	1	1
Fletcher Free Library, Burlington, Vt.,		1
Fullerton, Alex., Wilkesbarre, Penn.,		1
General Society of Mechanics and Tradesmen, New York,		1
Georgia Historical Society, Savannah, Ga.,		1
Germantown Friends' Free Library,		1
Gifford, William L. R., city,	5	2
Goddard, W. N., Hopedale, Mass.,		1
Goodell, Abner C., Jr., Boston,		2
Greely, A. W., Washington, D. C.,		1
Green, Dr. Samuel A., Boston, Mass.,	7	13
Hackett, Frank W., Portsmouth, N. H.,	1	
Hartford Library Association, Hartford, Conn.,		4
Hathaway, Francis R., city,		2
Harvard College, Cambridge, Mass.,		3
Haverhill Public Library, Haverhill, Mass.,	1	
Helleberg, C. G., Chicago, Ill.,	1	
Historical Society of Pennsylvania, Philadelphia,	2	
Hoar, George F., Worcester, Mass.,		1
Howland, George, Jr., city,	30	1
Hubbard, Oliver P.,		1
Huling, Ray Greene, city,	1	3
Jackson, Henry R.,		1
King, Moses, Boston,		1
Knight, Charles W., city,	9 papers.	
Lancaster Library Committee, Lancaster,		1

Lawrence Public Library, Lawrence,		1
Leeson, J. R., Boston, Mass.,	1	1
Lehigh University, South Bethlehem, Penn.,		1
Leonard, Elisha, city,		MSS.
Lynn Public Library, Lynn, Mass.,		1
Maimonides Library, New York,		1
McKee, Major James C., Watertown Arsenal, Mass.,		1
Marsh, Col. Lucius B., Boston,	1	
Massachusetts Civil Service Commissioners, Boston,		1
Massachusetts Tariff Reform League, Boston, Mass.,		1
Massachusetts Society for the Prevention of Cruelty to Children, Boston,		1
Massachusetts Society for Promoting Good Citizenship, Boston,		1
Mercantile Library Company, New York,		2
Meteorological Bureau, Columbus, Ohio,		1
Moseley, Edw. A., Secretary Interstate Commerce Commission, Washington, D. C.,	1	
Nash, E. W., New York, N. Y.,		1
Newark Library Association, Newark, N. J.,		1
Newberry Library, Chicago, Illinois,		1
New England Dental Society, Cambridge,	1	
New Haven Free Public Library, New Haven, Conn.,		1
New Jersey State Government, Newark, N. J.,	1	
Newton Free Library,		1
New York Free Circulating Library,		1
Nichols, Frederick, Boston, Mass.,		3
Northampton Lunatic Hospital, Northampton, Mass.,		1
Nye, Mrs. Obed C., city,		1
Omaha Board of Trade, Omaha, Neb.,		1
Omaha Public Library, Omaha, Neb.,		1
Peabody Institute, Peabody, Mass.,		2
Perkins Institution for the Blind, Boston,		1
Pillsbury, Parker, Concord, N. H.,		1
Potter, Southward, 2d, city,	1	
Pouchet, H. G. C., Paris, France,		1
Preston, Sidney H., Westminster, London, S. W.,	1	
Providence Public Library, Providence, R. I.,		1
Publishers of the Folio, Boston, Mass.,	5	
Randolph, J. W., and English, Richmond, Va.,		1
Redwood Library, Newport, R. I.,		1
Rockwell & Churchill, Boston,		1
Rodman, Edmund, city,		1
Rosse, Irving C., Washington, D. C.,		4
Roswell, J. C., Oakland, Cal.,		1

Royal Society of Canada, Montreal, Canada,	1	
San Francisco Public Library, San Francisco, Cal.,		1
Smith, George W., Philadelphia, Photo.		
Smithsonian Institution, Washington, D. C.,	2	
Sprague, Homer B., Grand Forks, Dakota,		1
Springfield City Library Association, Springfield, Mass.,		8
St. Louis Public Library, F. M. Crunden, Libn.,		1
Swift, George B., Chicago, Ill.,	1	
Taber, Wm. C., Jr., city,		1
Taunton Public Library, Taunton,		1
Thompson, James D., city, Maps.		
Thompson, Susan (Taber),	2	7
Trenholm, W. L., Washington, D. C.,	1	
Tyler, Charles E., New Bedford,		5
University of California, San Francisco, Cal.,		1
University of Penn., Philadelphia, Penn.,	1	
United States:		
— Bureau of Education,	1	1
— Coast Survey,	2	
— Interior Department,	72	1
— Patent Office,	1	
— State Department, Map.	1	11
— Treasury Department,	4	
— War Department,	8	4
Waltham Public Library, Waltham, Mass.,		2
Watertown Free Public Library, Watertown, Mass.,		1
Wattley, Chas., city,	1	
Whitaker, Alfred E., San Francisco, Cal.,		1
White, Guilford, Easton, Mass.,		1
Willey, Henry, city,	2	7
Willis, Rufus H., city,	2	
Wilmington Institute, Wilmington, Delaware,		1
Woburn Public Library, Woburn, Mass.,		1
Woman's Medical College of Penn., Philadelphia,		1
Worcester Free Public Library, Worcester, Mass.,		1
Worth, Benj., city,		2
Yale University, New Haven, Conn.,		1
Young Men's Business Association, Quincy, Ill.,	1	
Young Men's Christian Association, N. Carolina,		2
Zerbone, Antonio, city,	7	2

In Board of Aldermen,
March 14, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
March 14, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

1889—CITY DOCUMENT No. 5.

ANNUAL REPORT

OF THE

CHIEF ENGINEER

OF THE

FIRE DEPARTMENT

OF THE CITY OF NEW BEDFORD,

FOR THE YEAR ENDING DECEMBER 31, 1888.

FREDERICK MACY, CHIEF ENGINEER.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

COMMITTEE OF THE CITY COUNCIL

ON

FIRE DEPARTMENT,

1888.

Aldermen.

CHARLES S. ASHLEY.
Residence 53 Pleasant street.

JAMES E. STANTON,
Residence Mt. Pleasant street.

Councilmen.

JOHN A. GOMLEY,
Residence 198 Kempton street.

ANDREW G. PIERCE, JR.,
Residence 103 Spring street.

CHARLES J. McGURK,
Residence Mosher Street.

ENGINEERS' DEPARTMENT.

Chief Engineer.

FREDERICK MACY,

Residence 234 Acushnet avenue.

First Assistant Engineer.

LORING T. PARLOW,

Residence 5 North street.

Second Assistant Engineer.

PLINY B. SHERMAN,

Residence 433 Acushnet avenue.

Third Assistant Engineer.

AUGUSTUS A. WOOD,

Residence 46 Hill street.

Fourth Assistant Engineer.

HUGH McDONALD,

Residence 113 Second street.

Clerk of Board of Engineers.

LUTHER G. HEWINS, JR.,

Residence 762 County street.

REPORT.

FIRE DEPARTMENT OFFICE,
CITY HALL, NEW BEDFORD,
DECEMBER 31ST, 1888.

GENTLEMEN,—In compliance with the requirements of the city ordinance governing the Fire Department of the city of New Bedford, I herewith submit to you my twelfth annual report of the doings and condition of the department for the year ending December 31st, 1888, together with a list of the members, with their rank, number of badge, age, residence, and occupation; location of fire alarm signal boxes, and distribution of keys to same; a statement of receipts and expenditures; fires and alarms; loss and insurance, as near as could be ascertained; location of hydrants and reservoirs; inventory of property in possession of the department; and such suggestions as I think may be of interest to you.

Everything in the department has run along about as usual, and, although we have had a larger number of fires than ever before, our losses have not been very heavy for a city of our size and the large amount of property at risk.

The only very disastrous fire we have had occurred on the evening of August 8th, when Messrs. Greene & Wood's planing mill and wood-turning shops were accidentally fired by sparks from the furnace under the boilers. This

fire was a quick one and called into service the whole department and all the available apparatus in the city proper, and although it was well fought and well stopped, it demonstrated what might have been the result under less favorable circumstances, and showed the necessity of increasing our force of men and machinery to keep pace with the rapid growth of the city. We have since equipped the new house corner of Bowditch and Weld streets with a hook and ladder (No. 2) and a hose carriage (No. 2) which, with the good water pressure in that vicinity, will make a good protection for the north end, and gives us two more companies in case of a large fire in any part of the city. In my annual reports for several years I have called the attention of the city council to some better protection for the northwest section of the city, and as the present government have purchased a lot on the corner of Mt. Pleasant and Durfee streets for an engine house, I hope the next government will see the wisdom of erecting the house as early in the spring as possible, so we may have it equipped before another winter.

I regret to have to report the death of First Assistant Engineer Michael F. Kennedy, which occurred on the 27th day of June, 1888. Mr. Kennedy was an assistant engineer for twelve years and a life-long fireman. By his death the department loses a very efficient officer and the firemen a warm friend, and his many generous acts and genial ways will ever be remembered by all of his comrades.

Nathaniel H. Caswell, a member of Hook and Ladder No. 1, was injured about the head and ankle at the fire of Greene & Wood's planing mill August 8th, and laid off five weeks. Wm. McCann, a member of Hook and Ladder No. 2, was injured by truck coming in collision with a horse car while responding to an alarm of fire from box 34 November 4th, and laid off four weeks.

FORCE OF THE DEPARTMENT.

The force of the department consists of one chief, four assistants, and clerk, sixteen men permanently employed, and one hundred forty-nine call men, making a total of one hundred seventy-one men.

APPARATUS.

The apparatus consists of five steamers in commission and one ready for immediate use in reserve, one hand engine stationed at the Head of the River, one hose wagon, one two-wheeled and five four-wheeled horse hose carriages, one Hayes aerial ladder truck, and one common hook and ladder truck in commission, and one old truck in reserve and stationed at the coal depot on Elm street, three sleigh reels, seven exercise and coal wagons, and one telegraph wagon, all in good order. The old No. 4 has been broken up and sold, as it was not worth repairing.

HOUSES.

The engine and ladder houses are all in very good order, there having been a great deal done the past year. At the Central house there has been an entire new floor to house and stable, stalls turned around so the horses face the apparatus, stairs taken out and new ones built, and, in fact, the whole house internally has been remodelled, and it is now as good and convenient as any of our modern houses. It has been quite an expensive job, and that is why it has been delayed so long; but as the floors were so poor and had got to be replaced, the committee decided to do the whole job at once, and it will be many years before this house will require any great outlay. The stable floor of Number Four engine house has been rebuilt, and there has been considerable repairing and painting at the other houses, so that they are all in very good repair.

HORSES.

There are twenty-five horses belonging to the department, five having been purchased and one sold during the year. At the present time they are all in good condition, but it is probable that one or two will have to be replaced the coming year.

HARNESSES.

There are nine sets of double and eight single harnesses, all in good condition.

HOSE.

There are eleven thousand six hundred fifty feet of cotton rubber-lined hose in the department, most of it in good condition, but some of it, purchased twelve years ago, is beginning to show signs of decay and will have to be replaced the coming year.

WATER SUPPLY.

The number of hydrants, Jan. 1st, 1888, was four hundred ten (410); added during the year, thirty-five (35); making a total of four hundred forty-five (445).

There are thirty-one (31) reservoirs all in good repair. The covering stones of the large one on the corner of Linden and Ashland streets were broken early in the year and had to be replaced at quite a heavy outlay.

With one or two exceptions we have had a good water supply at all fires, and those only occurred where we located engines on the dead ends of small mains; but we know that the Water Board are doing everything in their power to improve the system and make it as near perfect as possible. The most gratifying work to this department was extending the mains to Lund's corner, for it will save much labor at fires in that vicinity.

FIRE ALARM.

The fire alarm has worked very well during the year, although we have had considerable trouble to keep it in working order. There have been times when we have had large sections of the city exposed for hours while testing for trouble on the lines. In my annual reports for several years I have called the attention of the government to the condition of this branch of the service, and as the lines are extended very much each year, it makes the circuits so large that in case of trouble it takes a long time to find it and leaves a large section of the city exposed while doing so. I hope the incoming government will see the necessity of purchasing a new set of apparatus and give us six circuits where we now have three. Our present alarm was put in eighteen years ago, when our city was much smaller than now, and that it has done good service none will deny. As our main dependence is in quick and accurate alarms, it seems to me that it should be made as near perfect as possible.

There have been two boxes added during the year, viz.: 76, City Manufacturing Co.; 81, Howland Mills.

We have now fifty-six (56) fire alarm boxes, twenty-nine (29) miles of wire, eight bell strikers, eight fifteen-inch engine house gongs, seven seven-inch engineers' gongs, and three small tappers, operated by a battery of one hundred fifty-four cups.

PROTECTING SOCIETY.

The members of this society have been prompt in responding to all alarms and have performed all duties in a satisfactory manner, but they labor under a great disadvantage in having so few rubber covers at their disposals, and I trust that some means may be taken to increase the number before long.

RECEIPTS AND EXPENSES.

Appropriation for 1888,		$30,500.00
Special appropriation for new hook and ladder truck,		4,700.00
Cash received and paid to City Treasurer, as follows:		
For sale of old material,	$160.94	
For sale of horse,	100.00	
For sale of hose,	37.00	
For sale of copper,	79.20	
For sale of manure, city farm,	243.97	
General sewer account,	33.15	
Street department,	147.50	
Incidental,	405.67	
Transfer to balance account,	2,468.75	3,676.18
Expenditures,		$38,876.18

CONCLUSION.

I desire to return my most sincere thanks to his Honor the Mayor and gentlemen of the City Council for interest taken in this department, and to the officers and members of the department for their prompt response and duties well performed.

FREDERICK MACY,
Chief Engineer.

STATEMENT OF EXPENDITURES.

STATEMENT No. 1.

EXPENDITURES OF THE BOARD OF ENGINEERS FOR THE YEAR 1888.

Pay-roll,	$1520.00

STATEMENT No. 2.

EXPENDITURES OF THE FIRE ALARM FOR THE YEAR 1888.

Pay of Assistant Superintendent,	$600.00
Wire and rods,	112.92
Discs,	118.62
Zinc,	9.10
Insulators,	3.30
Poles,	5.55
Grain,	50.76
Hay,	30.69
Repair wagon,	52.18
Labor,	36.50
Incidentals,	57.96
	$1077.58

STATEMENT No. 3.

RUNNING EXPENSES OF THE COMPANIES FOR 1888.

Company pay-rolls,	$7,065.24
Permanent men's pay-rolls,	12,386.08
Hay and straw,	1,509.64
Grain,	799.68
Shoeing and blacksmithing,	440.39
Harnesses and repairs,	428.76
Wood and coal,	463.62
Gas,	287.01
Electric lights,	263.51
Engine and wagon repairs,	607.65
Incidentals,	267.40
	$24,518.98

STATEMENT No. 4.

Expenditures of the New Bedford Protecting Society for 1888.

Pay-rolls,	$150.00

STATEMENT No. 5.

Repairs of Buildings for 1888.

Weld street engine house,	$346.81
Onward No. 1 engine house,	2.38
Central engine house,	1591.73
C. Howland No. 4 engine house,	138.19
Z. Hillman No. 5 engine house,	74.87
F. Macy No. 6 engine house,	87.58
	$2241.56

STATEMENT No. 6.

Incidental and Supply Account for 1888.

Horse hire,	$359.60
New hose and repairs,	698.80
Telephones,	350.00
Horses,	1372.00
Labor,	22.50
Rent,	85.00
Advertising and printing,	48.10
Freight and carting,	65.63
Repairing reservoirs,	502.79
Injuries to firemen,	82.00
Cannel coal,	221.05
New wagon,	300.00
New hose wagon,	540.00
New hook and ladder truck,	3000.00
Fire extinguishers,	82.20
Sundries,	1638.39
	$9368.06

STATEMENT No. 7.

Total Expenditures of the Fire Department for the Year 1888.

Expenditures of Board of Engineers, as per Statement No. 1,	$1,520.00
Expenditures of fire alarm, as per Statement No. 2,	1,077.58
Running expenses, as per Statement No. 3,	24,518.98
Expenses of Protecting Society, as per Statement No. 4,	150.00
Repairs on buildings, as per Statement No. 5,	2,241.56
Incidentals and supplies, as per Statement No. 6,	9,368.06
	$38,876.18

Fire Department Roll.

ONWARD STEAM FIRE ENGINE CO., No. 1.

House on Purchase street, foot of Franklin street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 6950 lbs.; weight of hose carriage, with 1050 feet of Boyd's cotton hose, 2850 lbs.; put into service August 26, 1869. Company organized January 1, 1870.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
April 29, 1873.	8	Allen W. Tinkham,	Foreman.	34	County ave.	Carpenter.
June 15, 1876.	17	George A. Tripp,	1st Asst.	40	63 Foster street.	Clerk.
April 24, 1882.	6	Edward M. Durfee,	2d Asst.	43	488 Acushnet ave.	Blacksmith.
Dec. 30, 1871.	9	E. C. Milliken,	Clerk.	45	193 Pleasant st.	Baker.
Jan. 27, 1873.	7	Julian A. Sweet,	Hoseman.	39	State & Franklin.	Roll Coverer.
May 31, 1880.	24	Charles A. Wilson,	"	32	111 Campbell st.	Carpenter.
May 7, 1883.	11	F. W. Brightman,	"	30	158 Middle st.	Paint Manuf.
Apr. 28, 1884.	12	Nelson J. Stone,	"	35	65 Ash st.	Horse Trainer.
Oct. 27, 1884.	16	Edgar F. Tripp,	"	37	344 Pleasant st.	Shoe Maker.
Dec. 29, 1884.	19	John Whitehead,	"	44	Pearl street and Acushnet ave.	Sawyer.
Jan. 26, 1885.	15	James F. Powers,	"	35	102 Merrimac st.	Machinist.
Aug. 31, 1885.	10	Wm. O. Brightman,	"	36	83 Austin st.	Paint Manuf.
April 1, 1885.	18	Roland A. Hatch,	Torch.	22	44 High st.	Clerk.
Sept. 1, 1885.	13	John T. Aghen,	"	26	6 Willis st.	Clerk.
Mar. 7, 1884.	20	Fred'k H. Wood,	Engineer.	28	Engine house.	Engineer.
Dec. 30, 1871.	21	James L. Bryant,	Driver.	50	"	Hostler.
Apr. 10, 1885.	23	Isaac Dawson,	Reel driver	23	"	Teamster.
Apr. 1, 1884.	22	Harris N. Tinkham,	Stoker.	30	74 Parker st.	Blacksmith.

PROGRESS STEAM FIRE ENGINE CO., No. 2.

House corner Purchase street and Mechanics lane. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.,; put in commission November 6, 1884. Company organized October 27,1860.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 7, 1878.	30	George M. Crapo,	Foreman.	37	48 North Second st.	Frame Maker.
Nov. 1, 1862.	25	John Downey,	1st Asst.	51	77 North Second st.	Teamer.
July 3, 1876.	32	Charles F. Dean,	2d Asst.	34	59 Elm st.	Carriage Painter.
Aug. 20, 1874.	27	James D. Allen,	Clerk.	52	202 Purchase st.	Clerk.
Jan. 1. 1872.	29	James G. Harding,	Hoseman.	54	62 State st.	Carpenter.
Jan. 1, 1872.	28	Edward C. Spooner,	"	54	58 North Sixth st.	Teamer.
July 6, 1874.	26	Eugene R. Leverett,	"	35	188 Middle street.	Clerk.
July 3, 1876.	34	Moses Dean,	"	35	202 Purchase st.	Blacksmith
June 2, 1879.	33	Wm. R. Sherman,	"	37	161 William st.	Merchant.
May 5, 1884.	36	Samuel W. Mitchell,	"	30	Cor. High and Purchase streets.	Boat Builder.
May 11, 1885.	35	William K. Wagner,	"	32	44 Pleasant street.	Telephone Inspector.
Jan. 6, 1886.	37	E. Kempton Pierce,	"	27	19 Mill st.	Shoemaker
1887.	24	Michael Thompson,	Torch.	22	77 Mill st.	Junk Dealer.
1888.	31	W. D. Jacobs,	"	22	59 Elm st.	Doctor.
April 4, 1876.	38	George B. Russell,	Engineer.	56	North st.	Engineer.
May 1, 1871.	39	William P. Soule,	Driver.	56	303 Acushnet ave.	Hostler.
Aug. 20, 1874.	40	Lemuel W. Hayes,	Stoker.	45	18 Hillman st.	Wood Turner.
July 16, 1876.	41	Michael Conway,	Reel driver	50	8 Walnut st.	Hostler.

CORNELIUS HOWLAND STEAM FIRE ENGINE CO., No. 4.

House corner Sixth and Bedford streets. Engine built by the Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7000 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put in service May 20, 1884. Company organized February 1, 1867.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 10, 1877.	42	Edgar S. Gilbert,	Foreman.	41	2 Fifth st.	Painter.
Aug. 31, 1885.	48	James J. Donaghy,	1st Asst.	24	91 Washington st.	Machinist.
Dec. 6, 1877.	47	Charles H. Card,	2d Asst.	40	73 Forest st.	Painter.
May 4, 1868.	50	William A. Gibbs,	Clerk.	38	73 Forest st.	Cabinet Maker.
Jan. 29, 1867.	46	James M. Tripp,	Hoseman.	53	211 Acushnet ave.	Carpenter.
Jan. 23, 1873.	49	John H. Backus,	"	37	12 Rockland st.	Blacksmith.
Nov. 10, 1879.	53	Benj. F. Hinckley,	"	32	22 Madison st.	Printer.
Aug. 28, 1882.	45	Samuel Watson, 2d,	"	31	257 Acushnet ave.	Grocer.
Jan. 31, 1881.	44	Charles S. Wing,	"	34	123 Fifth st.	Grocer.
Oct. 27, 1884.	51	Roland W. Snow,	"	53	139 Fourth st.	Painter.
Aug. 31, 1885.	52	Daniel J. McDonald	"	26	19 Cannon st.	Blacksmith.
July 26, 1886.	43	Wm. E. Watson, Jr.,	"	24	37 Fifth st.	Clerk.
Aug. 29, 1887.	55	Henry J. Marshall,	Torch.	25	63 School st.	Blacksmith.
Feb. 16, 1888.	54	Frank C. Jennings,	"	22	19 Allen st.	Jeweller.
Jan. 29, 1867.	56	Daniel D. Briggs,	Engineer.	50	43 Bedford st.	Machinist.
Apr. 29, 1878.	58	Alonzo V. Jason,	"	34	Engine house.	"
Jan. 29, 1867.	57	Geo. H. W. Tripp,	Driver.	53	"	Hostler.
Mar. 1, 1887.	59	Isaac L. Ashley,	Reel driver	31	43 Wing st.	Stable Keeper.

ZACHARIAH HILLMAN STEAM FIRE ENGINE CO., No. 5.

House corner of County and Hillman streets. Engine built by Messrs. Clapp & Jones, Hudson, N. Y.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7250 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service December 13, 1873. Company organized December 13, 1873.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Jan. 29, 1883.	60	Charles C. Gifford,	Foreman.	43	151 North st.	Carpenter.
July 27, 1885.	65	John F. Gifford,	1st Asst.	34	169 Kempton st.	Teamster.
May 23, 1886.	61	Henry C. Stubbs,	2d Asst.	36	638 County st.	Painter.
July 1, 1880.	69	Jerrie B. Taber,	Clerk.	29	20 Shawmut ave.	Carriage Maker.
May 1, 1876.	64	Geo. H. Chadwick,	Hoseman.	54	154 Kempton st.	Painter.
Dec. 13, 1873.	62	Isaiah H. Wilcox,	"	53	506 Acushnet ave.	Painter.
May 25, 1885.	66	Charles H. Brown,	"	33	151 Cedar st.	Teamster.
June 1, 1885.	71	Andrew T. Allen,	"	26	214 Cedar st.	Jobber.
Feb. 1, 1884.	68	Squire A. Gifford,	"	32	163 Kempton st.	Teamster.
May 5, 1884.	67	George H. Cook,	"	27	121 Maxfield st.	Clerk.
June 7, 1888.	63	Joseph Forbes,	"	22	33 Smith st.	Shoemaker.
Dec. 31, 1888.	70	Thomas H. Forbes,	"	27	121 Cedar st.	Shoemaker.
Feb. 23, 1885.	73	Arthur Forbes,	Torch.	20	151 North st.	Clerk.
June 7, 1888.	72	Henry Johnes,	"	20	65 Chestnut st.	Machinist.
Dec. 13, 1873.	74	Martin Blanchard,	Engineer.	45	Engine house.	Engineer.
Jan. 29, 1883.	77	Martin S. Nelson,	Reel driver	32	60 Thomas st.	Clerk.
Jan. 7, 1876.	75	Benj. F. King, Jr.,	Driver.	48	Engine house.	Hostler.
May 1, 1882.	76	Charles Jones,	Stoker.	36	"	Wood Turner.

FREDERICK MACY STEAM FIRE ENGINE CO., No. 6.

House on Fourth street, head of Potomska street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity 500 gallons per minute; weight of engine, as drawn to fires, 7100 lbs.; weight of hose carriage, with 1050 feet Boyd's cotton hose, 2850 lbs.; put into service November 1, 1882. Company organized October 31, 1882.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Oct. 31, 1882.	121	George W. Parker,	Foreman.	37	135 Washington st.	Bookkeeper.
Oct. 26, 1886.	130	Edward W. O'Neil,	1st Asst.	27	30 Thompson st.	Glass Cutter.
May 8, 1884.	126	Robert N. Allen,	2d Asst.	44	26 Thompson st.	Painter.
Oct. 31, 1882.	122	Herbert B. Gardner,	Clerk.	42	114 Washington st.	Compositor.
Oct. 31, 1882.	127	Thomas Wood,	Hoseman.	42	117 Grinnell st.	Photograp'r.
Oct. 31, 1882.	125	Marshall S. Greene,	"	34	Rivet st., near Crapo.	Mason.
Mar. 27, 1883.	128	Joseph Jackson,	"	33	59 Allen st.	Barber.
Oct. 31, 1882.	131	Charles R. Cornell,	"	31	283 County st.	Stable Keeper.
Oct. 31, 1882.	132	Jason L. Ballou,	"	43	41 Rockland st.	Carpenter.
Oct. 31, 1882.	133	Charles K. Wood,	"	37	87 Acushnet ave.	Passapartout Maker.
June 22, 1885.	124	James Harrington Sherman,	"	40	234 County st.	Machinist.
Nov. 24, 1885.	123	Henry M. Mosher,	"	40	205 County st.	Press worker
Oct. 31, 1882.	135	Frederick Nelson,	Torch.	22	200 So. Second st.	Mason.
Jan. 1, 1888.	138	Walter Almond,	"	26	Hall st.	Turner.
Oct. 31, 1882.	137	Charles G. Taber,	Engineer.	40	276 Fourth st.	Engineer.
Nov. 10, 1886.	142	Benjamin C. Groves,	Stoker.	32	284 Fourth st.	Machinist.
Oct. 31, 1882.	134	Frank A. C. Greene,	Driver.	23	87 Acushnet ave.	Driver.
Oct. 31, 1882.	136	N. Herbert Greene,	Reel driver	32	Acushnet ave. and Potomska st.	Teamer.

HOOK AND LADDER CO. No. 1.

House corner of Purchase street and Mechanics lane. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission August 30, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
June 30, 1870.	87	Lysander W. Davis,	Foreman.	55	106 Chestnut st.	Carpenter.
Aug. 5, 1865.	102	Charles J. Johnson,	1st Asst.	56	23 Locust st.	Spar Maker.
Feb. 5, 1884.	101	Frank Spooner,	2d Asst.	33	85 South Second st.	Painter.
May 31, 1874.	89	Charles E. Pierce,	Clerk.	41	16 Morgan st.	Printer.
Feb. 5, 1884.	98	Chas. B. Allison,	Ladderm'n	32	447 Pleasant st.	Hackman.
1888.		John W. Cannavan,	"	26	6 Market street.	Shoemaker.
Aug. 1, 1879.	96	Nathl. H. Caswell,	Axeman.	41	500 Acushnet ave.	Blacksmith.
June 6, 1884.	93	Charles H. Delano,	Ladderm'n	26	235 So. Second st.	Mechanic.
June 24, 1883.	105	Edward D. Francis,	"	33	26 Kempton st.	Shoemaker.
Oct. 30, 1882.	104	Henry C. Gidley,	"	26	72 South First st.	Shoemaker.
June 2, 1880.	103	Alfred M. Gifford,	"	24	72 Walden st.	Decorator.
May 24, 1886.	95	Andrew V. Landers,	Axeman.	50	Chestnut street, near Pope.	Shoemaker.
Oct. 26, 1863.	90	Abram R. Luscomb,	Ladderm'n	49	159 Pleasant st.	Laborer.
Sept. 26, 1887.	100	Loren N. Mosher,	"	31	High st. and Acushnet ave.	Shoemaker.
Aug. 7, 1863.	86	Philip M. Tripp,	"	50	84 Elm st.	Teamster.
July 26, 1880.	92	Clarfus Vansant,	"	51	Mill st. and Acushnet ave.	Blacksmith.
Sept. 21, 1881.	106	William A. Hamer,	Torch.	22	78 Middle st.	Printer.
Dec. 1, 1886.	107	William R. Russell,	"	22	63 South Second st.	Ornamenter.
Sept. 1, 1888.		George S. Allen,	Driver.	28	36 Elm st.	Hostler.
1888.	97	Charles W. Vining,	Tillerman.	32	Engine house.	

HOOK AND LADDER CO. No. 2.

House on Weld street. Carriage built by Joseph T. Ryan, of Boston; put into commission August 4, 1877. Present company organized September, 1888.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Sept., 1880.	171	Henry W. Kenyon,	Foreman.	46	910 Acushnet ave.	Overseer.
"	172	Edward F. Dahill,	1st Asst.	26	Hazard and Pleasant sts.	Merchant.
"	173	Albert W. Moore,	2d Asst.	38	32 Weld st.	Hair Dresser
"	174	James Slater,	Poleman.	40	678 Purchase st.	Merchant.
"	175	Martin H. Sullivan,	Axeman.	30	1017 Purchase st.	Carpenter.
"	176	John W. Bannister,	Ladderm'n	27	110 Merrimac st.	Salesman.
"	177	John S. Harrington,	"	29	County and Penniman sts.	Baker.
"	178	David Warren,	"	32	235 State st.	Stablekeeper
"	179	William McCann,	"	28	Howard st.	Roller Coverer.
"	180	Peter F. Sullivan,	Clerk.	28	State and Cedar Grove sts.	Grocer.
"	181	Edward T. Ryan,	Ladderm'n	31	7 Linden st.	Barber.
"	182	Alfred Chausse,	"	21	Cedar Grove st.	Clerk.
"	183	Jeremiah T. Haggerty,	Substitute.	20	Bowditch st.	"
"	184	Sylvester Budlong,	"	18	80 Merrimac st.	Caster.
	108	Lewis G. Allen,	Driver.	66	Engine house.	Hostler.

HOSE COMPANY No. 1.

House corner of Purchase street and Mechanics lane. Wagon built by Brownell, Ashley & Co., New Bedford; put in commission December 1, 1888. Company organized December 31, 1871.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 6, 1873.	82	David W. Howland,	Foreman.	52	45 North street.	Blacksmith.
Mar. 6, 1885.	79	Charles T. Maxfield,	1st Asst.	24	57 Mechanics lane.	Printer.
Dec., 1885.	78	Augustus G. Mitchell	2d Asst.	30	86 North Second st.	Painter.
Jan. 1, 1873.	81	James S. Hathaway,	Clerk.	58	496 Acushnet ave.	Shipwright.
May 6, 1886.	83	Samuel C. King,	Hoseman.	27	42½ North Sixth st.	Cooper.
1888.	84	William H. King,	Driver.	26	59 Pleasant st.	Laborer.
1887.	85	John B. Oliver,	Hoseman.	24	201 Elm st.	Blacksmith.
1888.	80	Wm. H. Maxfield,	"	22	57 Mechanics lane.	Laborer.
1888.	167	Harry Burditte,	Torch.	25	209 Purchase st.	Driver.

HOSE COMPANY NO. 2.

House on Weld street. Carriage built by the Amoskeag Manufacturing Co., Manchester, N. H.; weight of carriage and 900 feet of vulcanized rubber hose, 2790 lbs.; put into service January 1, 1872. Present company organized December 3, 1888.

Date of Joining.	No. of Badge.	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 3, 1888.	186	Samuel C. France,	Foreman.	29	Mt. Pleasant st.	Salesman.
"	187	Joseph Dawson,	1st Asst.	28	643 Purchase st.	Salesman.
"	188	Mark Watson,	2d Asst.	29	990 Purchase st.	Salesman.
"	189	Stephen L. Finnell,	Hoseman.	29	Reynolds st.	Salesman.
"	190	Bartholomew P. Fury,	"	24	815 Purchase st.	Mule spinner
"	191	Frank E. Foley,	Substitute.	21	State st.	Fisherman.
"	192	George C. Hewins,	"	17	762 County st.	Salesman.
"	193	Reuben Taber,	Driver.	33	32 Bowditch st.	Hostler.

HANCOCK ENGINE CO., No. 9.

House located at Acushnet. Engine built by John Agnew of Philadelphia, in 1843. Engine removed to Acushnet Jan. 18, 1861, and a company was organized to man her at that time. Company reorganized Dec. 14, 1878.

Date of Joining.	No. of Badge	Name.	Rank.	Age.	Residence.	Occupation.
Dec. 14, 1888.	146	John A. Russell,	Foreman.	38	Acushnet ave.	Farmer.
May 7, 1883.	147	Francis P. Washburn.	1st Asst.	45	"	Carpenter.
Dec. 14, 1878.	154	Joseph W. Spooner,	2d Asst.	36	"	Peddler.
April 7, 1886.	156	John Dailey,	Clerk.	29	"	Boxmaker.
Dec. 14, 1878.	149	John Sylvia,	Steward.	51	Belleville road.	Shoemaker.
May 1, 1882.	159	Israel H. Peckham,	Suction Hoseman.	46	Tarkiln Hill road.	Blacksmith.
Nov. 3, 1886.	150	Job T. Haskins,	Brakeman.	42	Mill street.	Laborer.
Dec. 14, 1878.	153	William F. Gifford,	Leading Hoseman.	41	"	Farmer.
"	160	Herbert M. Spooner,	"	31	Acushnet ave.	Boxmaker.
Sept. 3, 1883.	151	John G. Whalon,	"	27	"	"
Dec. 14, 1878.	148	Andrew B. Grinnell, Jr.,	Brakeman.	49	Mill st.	Grocer.
"	152	James A. Wilbor,	"	43	"	Barber.
"	165	Allen Russell, Jr.,	"	31	Acushnet ave.	Postmaster.
"	157	George W. Randall,	"	51	Main st.	Carpenter.
"	166	Eli W. Reed,	Suction Hose.	50	Tarkiln Hill road.	Teamster.
"	158	Lemuel A. Washburn,	Brakeman.	50	Acushnet ave.	"
Dec. 4. 1882.	164	George W. Hawes,	"	34	"	"
Oct. 8, 1885.	155	James L. Haskins,	Leading Hoseman.	28	"	"
Dec. 1886.	145	John F. Parker,	Brakeman.	21	"	Painter.
1888.	162	John G. Dawson,	"	24	Tarkiln Hill road.	Teamster.
1888.	163	Nathan C. Briggs,	"	51	Acushnet ave.	Carpenter.
1886.		George H. Gifford,	Torch.	17	"	Clerk.
1888.		John B. Wilbor,	"	17	Mill st.	Laborer.

NEW BEDFORD PROTECTING SOCIETY.

President, Charles S. Kelley; First Director, Jonathan Handy; Second Director, William A. Robinson; Third Director, Charles H. Lawton; Fourth Director, Edward T. Pierce; Fifth Director, Charles M. Haskell; Sixth Director, Edmund F. Maxfield; Seventh Director, Edmund Wood; Eighth Director, John H. Lowe; Secretary and Treasurer, Edward H. Allen.

Francis T. Akin,
Gilbert Allen,
Gideon Allen, Jr.,
George H. H. Allen,
O. Frank Bly,
Standish Bourne,
George E. Briggs,
Thomas Boardman,
Charles A. Case,
R. C. P. Coggeshall,
Edwin Dews,
Henry C. Denison,
John H. Denison,
Ernest A. Dunham,
Joseph Dias,
Edward R. Gardner,
Edmund Grinnell,
Frank H. Gifford,
A. W. Hadley,
Charles B. Hillman,
John I. Howland,
Charles M. Hussey,
Henry F. Hammond,
Thomas H. Knowles,
G. D. Kingman,
Edgar R. Lewis,
Philander F. Manchester,
Willard Nye, Jr.,
Charles W. Plummer,
George F. Parlow,
William F. Potter,
Arthur E. Perry,
James N. Parker,
William H. Pitman,
Charles L. Paine,
William F. Reed,
Morgan Rotch,
William A. Russell,
Arthur E. Robbins,
Louis H. Richardson,
Gardner T. Sanford,
R. W. Swift,
Frederick Swift,
William T. Smith,
Leander H. Swift,
Edward S. Shaw,
Robert Snow,
Charles M. Taber,
Henry J. Taylor,
Joseph Tillinghast,
William T. Taylor,
Henry W. Taylor,
Francis C. Terry,
Alfred G. Wilbor,
William H. Willis,
Horace Wood,
William O. Woodman,
Frederick A. Washburn,
Edmond L. Wilde,
Thomas F. Wood,
William R. West,
Mark T. Vincent.

Fire Alarms, Losses, and Insurance for 1888.

The loss by fire for the year 1888 was, in the aggregate, $32,881.87. Amount of insurance, $125,927.00. Number of bell alarms, 47. Still and telephone alarms, 45.

January 3, 6.42 P. M. Box 27. Fire in building on William street, owned by B. H. Waite, and occupied by Stephen D. Peirce. Caught from petroleum oil stove. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $310; insurance, $15,500. Loss on S. D. Peirce's stock, $3500; insurance, $10,250.

January 10. (Still.) Chimney fire in house of Mrs. Charlotte Barstow on South Orchard street. Responded to by men from Nos. 4 and 6 engine houses. No loss.

January 12, 8.30 P. M. Box 27. Fire in building corner of Second and Elm streets, owned by F. W. Oesting and occupied by John R. Case as a boarding house. Cause unknown. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose 1. Alarm given by citizen. Loss on building, $2500; insurance, $3500. Loss on furniture, $419; insurance, $1000.

January 6. (Still.) Fire in house on School street, owned by Edmund Rodman and occupied by Dennis Harrington and John Hall. Cause, smoking pipe on lounge. Extinguished by men from Central engine house. Loss on building, $75; insurance, $1000. Loss on furniture, $75; insurance, nothing.

January 9. (Still.) Chimney fire in house No. 332 South Front street, occupied by Antone Sylvia. Extinguished by men from No. 6 engine house. No loss.

January 20. (Telephone.) Fire in F. S. Shirley's house, No. 162 Acushnet avenue. Cause, broken gas burner too near boards. Extinguished by men from No. 4 engine house.

January 21. (Still.) Chimney fire in house No. 369 Purchase street. Responded to by men from Central engine house. No loss.

January 22. (Still.) Fire in green-house owned by Mrs. Edward T. Taber, No. 5 Morgan street. Responded to by men from Central engine house.

January 22. (Still.) Fire in house No. 36 Eighth street, belonging to estate of E. W. Perry and occupied by Jos. R. Wing. Cause, defective chimney. Extinguished by men from Central engine house. Loss on building, $20; insurance, $3000. Loss on furniture, $15; insurance, $1000.

January 23, 9.03 P. M. Box 38. Fire originated in barn on Bedford street, owned and occupied by Jeremiah Sullivan, and communicated to houses occupied by Sullivan, Emily T. King, and John Dunn. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on J. Sullivan's house, $65; insurance, $1500. Loss on barn, $250; insurance, $300. Loss on Emily T. King's house, $15; insurance, $1000. Loss on John Dunn's house, $30; insurance, $1500.

January 31, 5.30 A. M. (Still.) Chimney fire in house on Irving Court, occupied by F. R. Slocum. Responded to by men from Central engine house. No loss.

February 1. (Telephone.) Chimney fire in house owned and occupied by Charles T. Bonney, on Bedford street. Responded to by men from No. 4 engine house. No loss.

February 2. (Telephone.) Fire in saloon corner of Water and School streets, occupied by Barney McManus. Cause, lamp setting fire to moulding. Extinguished by men from Central engine house. Loss trivial.

February 2. (Still.) Fire on roof of H. N. Dean's blacksmith shop. Cause, sparks from chimney. No loss.

February 2. (Still.) Fire in picker room of New Bedford Manufacturing Co.

February 4. (Telephone.) Smoke in residence of Mrs. Charles Taber, corner of County and Morgan streets, caused this alarm. Responded to by men from Central engine house. No loss.

February 9, 10 A. M. Box 48. Fire in building No. 149 South First street, occupied by Jesse Sayles. Cause, children playing with matches. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen.

February 10. (Telephone.) Chimney fire in house corner of Seventh and Spring streets, owned and occupied by Mrs. A. R. Tucker. Responded to by men from Central engine house. No loss.

February 10. (Still.) Fire in house No. 71 Middle street, occupied by Nicholas Clarkson. Caused by woman smoking dropping a lighted match in basket of clothes.

February 13. (Telephone.) Fire in carriage factory of Clarence Lowell on Acushnet avenue. Caused by plumbers setting fire to the flooring. Responded to by men from Central engine house. Loss $3.40; insurance, $1200.

February 17, 2.20 A. M. Box 34. Fire in building northwest corner of School and Second streets, owned by Roland Holcomb and occupied by A. E. Covil & Son. Caused by kerosene stove. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose 1. Alarm given by citizen. This loss was never adjusted.

February 17. (Telephone.) Men from C. Howland No. 4 engine house called to house belonging to Dr. W. Swift, supposed to be a chimney fire but proved to be meat in the oven.

February 19. (Telephone.) Fire in house No. 480 Acushnet avenue, owned by Wm. Walker and occupied by Nat. P. Sowle. Cause, breaking of lamp. Responded to by men from Central engine house. Loss on building, $7.72; insurance, $2000. Loss on furniture, $5; insurance, $500.

February 20, 11.30 A. M. (Telephone.) Chimney fire in house on Water street, just south of Coffin. Extinguished by men from No. 4 engine house. No loss.

February 21, 1 A. M. Box 18. Fire in building No. 171 Purchase street, owned by Mrs. Sayer and occupied by Peter Hoeffle, shoemaker. Cause, smoking on lounge. Companies responding: Engines 1 and 2, Hook and Ladder No. 1, and Hose No. 1. Alarm given by Officer Eldridge.

February 26. (Still.) Fire in house rear of 607 Acushnet avenue, occupied by Catharine Leary. Cause, overturning of lamp. Extinguished by Officer Murphy.

March 1, 3.25 P. M. Box 38. Fire in building No. 21 Bedford street, owned by Mrs. George Wood and occupied by Mr. Gilman Joslyn. Caused by a rack filled with clothes falling on stove. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by a citizen.

March 3, 3.15 P. M. Box 9. Fire in switch house of O. C. R. R., on Wamsutta street. Cause, sparks. Companies responding: Engines 1 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss $20.

March 5, 4.58 P. M. Box 57. Fire in meadow foot of County street. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. No loss.

March 11, 4.50 P. M. Box 24. Fire in barn on corner of Cook and Kempton streets, owned and occupied by Abram Chace. Cause, kerosene stove, used to heat the barn on account of sick horse, exploding. Companies responding: Engines 2 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $579.66; insurance, $1000. Loss on stock, $344.99; insurance, $1150.

March 20, 6.30 P. M. (Telephone.) Chimney fire in house of C. H. Pierce. Responded to by men from Nos. 2 and 4 engine houses.. No loss.

March 24, 12.25 A. M. (Telephone.) Fire in house No. 5 Swamp street, occupied by Z. Caldwell. Responded to by men from No. 5 engine house.

March 25, 11 A. M. (Telephone.) Fire in store of J. E. Dyer, Acushnet avenue. Cause, fire in spittoon. Extinguished by men from No. 4 engine house.

March 24. (Still.) Fire in grocery store of Wm. H. Knowles, corner of North and Cottage streets. Cause, gas jet coming in contact with paper trimmings.

March 25, 8.00 P. M. (Telephone.) Fire in woods at Nash Road. Responded to by men from No. 4 engine house.

April 13. (Telephone.) Chimney fire in house No. 252 Pleasant street, owned and occupied by Parkman M. Lund. Extinguished by men from Central engine house. No loss.

April 14, 4 A. M. Box 21. Fire in building corner of Water and North streets, owned by heirs of Wilcox & Richmond and occupied by Bowker & Tripp, Brightman & Washburn, New Bedford Steam Carpet Beating Establishment, and others. Cause unknown. Companies responding: Engines 1, 2, and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, Wilcox & Richmond, $388; insurance, $5000. Loss, Bowker & Tripp, $3140; insurance, $7000. Loss, Brightman & Washburn, $315; insurance, $1500.

April 14, 9.20 A. M. Box 24. Fire in house No. 29 Chancery street, owned and occupied by W. Emery Johnson. Cause unknown. Companies responding: Engines 2 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $35; insurance, $750. Loss on furniture, $25; insurance, nothing.

April 16, 11.00 A. M. Box 38. Fire in building southwest corner of Wing and Fifth streets, owned by James F. Davol and occupied by David H. Pierce. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on furniture, $289; insurance, $400.

April 17, 7.00 P. M. Box 35. Fire in basement of house northwest corner of School and Second streets, owned by R. Holcomb and occupied by A. E. Covil & Son. Cause, explosion of kerosene stove. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen.

April 29, 6.00 A. M. Box 34. Fire in house No. 12 Bethel street, owned by heirs of George L. Barney and John R. Thornton and occupied by Miss Emma Bonner and Mrs. Webster. Cause, defective chimney. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $888; insurance, $1800. Loss on Miss Bonner's furniture, $75; insurance, $500. Loss on Mrs. Webster's furniture, $75; insurance, nothing.

May 3. (Still.) Fire in bushes west of Rural Cemetery. No damage.

May 8, 6.30 P. M. Box 29. Fire in building northwest corner of Arnold and Arch streets, owned by John G. Harding and occupied by J. W. Lavers, grocer. Cause unknown. Companies responding: Engines 4 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $149; insurance, $2000. Loss on stock, $750; insurance, $1000.

May 9, 10.30 P. M. Box 51. Fire in barn on Crapo farm, beyond Rural Cemetery, belonging to Thos. B. Tripp and unoccupied. Cause, incendiary. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, $700; insurance, $1100.

May 23, 8.35 A. M. Box 25. Fire in building No. 257 Middle street, owned by heirs of Braddock Gifford and occupied by Wm. Mosher. Cause, boy playing with matches. Companies responding: Engines 2 and 5, Hook and Ladder No. 1, and Hose 1. Alarm given by citizen. Loss, $36; insurance, $500.

May 23, 9.50 A. M. Box 46. Fire in building No. 123 South Front street, owned by Eunice Green and occupied by a Portuguese family. Cause, burning soot in chimney. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. No loss.

May 25. (Telephone.) Fire in Board of Trade room under the ash pan. Cause, defective fire place. Extinguished by men from Central engine house. Loss, $17.02; insurance, $4000.

May 26, 6.20 P. M. Box 35. Chimney fire in house of N. P. Hayes on Walnut street. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. No loss.

May 30. (Still.) Smoke in sail loft of T. M. Hart & Co. on Commercial street.

June 8, 6 P. M. Box 6. Fire in shed on State street, north of Austin, owned and occupied by D. A. Ashley. Cause, boys and matches. Companies responding: Engines 1 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen.

June 14, 12 M. Box 3. Fire in box factory at Head of River, owned and occupied by Frank B. Carr. Cause, defective chimney. Companies responding: Engines 1 and 9, and Hose 1. Alarm given by citizen. Loss on building, $800; insurance, $500. Loss on machinery, $2820; insurance, $500. Loss on stock, $2000; insurance, nothing.

July 2, 5.20 A. M. (Still.) Fire in hen coop in yard of house on County street, near Bedford, owned by Wm. D. Wilson. Caught from lighted lamp. Extinguished by men from C. Howland engine house. Loss, $75; no insurance.

July 4, 9.19 A. M. Box 6. Fire in building Nos. 33 and 35 Austin street, owned by Wamsutta Mills Co. and occupied by Gilbert Bouchard and Ellen Dewherst. Cause, fireworks. Companies responding: Engines 1 and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $450; insurance, $2000. Loss on furniture, $25; insurance, nothing.

July 4, 9.58 A. M. Box 26. Fire in building No. 5 Elm street, owned by estate of James Fales and occupied by Mrs. James Allen and George F. Stevens. Cause, fire crackers. Companies responding: Engines 1 and 2, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, $4; insurance. $900.

July 4, 10.28 A. M. Box 52. Fire in house on Fourth street, near Rockland, owned by Manuel Sylvia. Cause, fire crackers. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, $28; insurance, $1400.

July 4, 2.50 P. M. Box 26. Fire in barn on North Water street, near Middle, owned by Akin & Swift and occupied by Daniel J. Linnehan. Cause, fire crackers. Companies responding: Engines 1 and 2, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, $4.85; insurance, $1000.

July 4, 9.38 P. M. Box 35. Fire on roof of shed, belonging to Russell estate, on Fourth street, rear of Ashley's stable. Cause, fire crackers. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss trivial.

July 4. (Still.) Fire on awning of James Rock's store on South Water street. Damage slight.

July 5, 8.15 A. M. (Still.) Fire in wood shed on South Second street, owned and occupied by Antone Rose. Extinguished by men from C. Howland engine house.

July 5, 12.52 P. M. Box 36. Fire in wooden building foot of Cannon street, owned by Hart & Akin and occupied as a store house below and tenement above. Cause, boys playing with fire. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss, $38; insurance, $1000.

July 8, 1.15 A. M. Box 26. Fire in David Duff & Son's coal pockets on Fish Island. Cause, imperfect setting of boiler. Companies responding: Engines 1 and 2, Hook and Ladder No. 1, and Hose No. 1. Alarm given by Officer Sisson.

July 8, 8.46 A. M. Box 27. Alarm struck on account of fire in Nathaniel S. Taber's house in Fairhaven. Engines 2 and 4 were sent over. Alarm given by Wm. P. Soule.

July 27. (Still.) Fire in window of H. F. Babcock's hat store, corner of Purchase and William streets. Cause, netting catching from gas burner.

July 28, 12 M. Box 7. Fire in building rear of 610 Purchase street, owned by James Groat and occupied by Mrs. Eliza Lavois. Cause, children playing with matches. Companies responding: Engines 1 and 5, Hook and Ladder No. 1, and Hose 1. Alarm given by citizen.

July 31, 5.15 A. M. Box 45. Fire in grocery store corner of Allen and Waverly streets, owned by Daniel Jenks and occupied by Manuel Joseph. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $75; insurance, $200. Loss on stock, $575; insurance, $1000.

August 8, 8.54 P. M. Box 46. Fire in planing mill owned and occupied by Greene & Wood, and carpenter shop occupied by Charles E. Pierce. Cause, sparks from under boiler. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by Officers Stevens.

August 8, 9.04 P. M. Box 46. Second alarm for same fire. Companies responding: Engines 2 and 5. Alarm given by Chief of Department.

August 8, 9.20 P. M. Box 46. Third alarm for same fire. Company responding: Engine 1. Alarm given by Chief of Department. Loss on Charles E. Pierce's stock, $527.87; insurance, $800. Loss on Greene & Wood's building, stock, and machinery, $15,000; insurance, $17,000. (Blanket policy, insurance paid, $12,127.80.)

August 15, 2.15 P. M. (Telephone.) Chimney fire in house of Capt. Wm. Weeks, No. 45 Hill street. Responded to by men from No. 5 engine house.

August 18, 7.05 P. M. Box 17. Fire in house on Maxfield street, owned by George Gardner and occupied by himself and F. C. Parker. Cause, gas jet in contact with drapery. Companies responding: Engines 1 and 5, Hook and Ladder No. 1, and Hose 1. Alarm given by citizen. Loss on building, $15; insurance, $3000. Loss on furniture, $40; insurance, nothing.

August 27, 2 P. M. Box 58. Fire in barn and house on Clark's Point, owned and occupied by Levi Salisbury. Cause, lightning. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on house, $25; insurance, $3000. Loss on barn, $950; insurance, $1000.

September 1. (Still.) Fire in Pardon Russell's ice house on Whitmore's lane, near Rockdale avenue. Cause unknown. Loss on houses, $2000; insurance, $2000. Loss on brow, $175; insurance, $600. Loss on ice, $750; insurance, $800.

September 1, 5 P. M. Box 68. Fire in Copper Works. Cause, sparks from chimney. Companies responding: Engines 1, 2, and 5, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. No loss.

September 11, 12 midnight. (Still.) Chimney fire in house No. 147 South Water street. Extinguished by men from Central engine house.

September 12, 11.57 A. M. Box 56. Fire in house No. 252 South First street, occupied by Thos. Boardman and John Watson. Cause, wood left in oven. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen.

September 25, 3 A. M. Box 34. Fire in Sheridan House on North Second street, owned by Mrs. James E. Sisson and occupied by Mr. Sisson as a hotel. Cause, defective chimney. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $838; insurance, $3000. Loss on furniture, $328.50; insurance, $2000. Loss on Thornton building, $20; insurance, $2000. Loss on C. H. & H. A. Lawton's stock, $60; insurance, $6000.

September 25. (Still.) Fire in L. B. Ellis' art store on William street. Extinguished by men from Central engine house. Loss trivial.

October 4, 10.25 A. M. Box 34. Fire in cooper shop on Hamilton street, owned and occupied by Robert Allan. Cause, sparks from chimney. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $24.98; insurance, $300. Loss on stock, $25; insurance, $1000.

October 9, 6.30 P. M. Box 26. Fire in building on Kelley's wharf, owned by heirs of E. C. Kelley and occupied by Luther Russell. Cause, defective stove pipe. Companies responding: Engines 1 and 2, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on stock, $200; insurance, $800. Loss on building, $150; insurance, nothing.

November 5, 8.40 P. M. Box 34. Fire in building on North Front street, owned by heirs of Sands Wing and occupied by Thomas W. Swift, pump and block maker. Cause unknown. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen.

November 5, 8.50 P. M. Box 34. For same fire. Companies responding: Engines 1 and 6 and Hook and Ladder No. 2. Alarm given by Chief of Department. Loss on stock, $750; insurance, $1500. Loss on building, $500; insurance, $500.

November 17. (Still.) Fire in house corner of Hillman and Summer streets, owned and occupied by R. C. P. Coggeshall. Cause, defective chimney. Extinguished by members from Z. Hillman Co. No. 5.

November 21, 9 A. M. Box 58. Fire in barns of S. T. Viall on Cove street. Cause unknown. Companies responding: Engines 4 and 6, Hook and Ladder No. 1, and Hose No. 1. Alarm given by citizen. Loss on building, $1729; insurance, $2732. Loss on contents, $826.50; insurance, $1250.

November 21. (Still.) Fire in hay left from S. T. Viall's barn.

December 3. (Still.) Fire in residence of C. P. Rugg, corner of Eighth and Spring streets. Responded to by men from Central house with new hose carriage.

December 8, 6.30 P. M. (Still.) Fire in building Nos. 10 and 14 Purchase street, owned by Imogene W. Eddy and occupied by William O. Woodman. Cause, gas jet in contact with goods in window. Responded to by men from Central engine house. Loss on building, $1.38; insurance, $2000. Loss on stock, $95; insurance, $1500.

December 11, 12.45 A. M. Box 126. Fire in barn on Cedar Grove street, owned and occupied by Daniel Galvin. Cause, incendiary. Companies responding: Engines 1 and 5, Hook and Ladder No. 2, and Hose No. 2. Alarm given by officer. Loss on building, $70; insurance, $75. Loss on contents, $20; insurance, $120.

December 16, 10.30 A. M. (Still.) Fire in shop of Wood, Brightman, & Company. Cause, overheated stove pipe. Responded to by men from Central engine house with new hose wagon. Loss on building, $26.60; insurance, $2000. Loss on stock, $12.40; insurance, $6500.

December 19, 9 A. M. (Still.) Fire in jewelry store on Purchase street, occupied by C. W. Haskins. Cause, defective furnace pipe. Extinguished by men from Central engine house.

December 20, 10.30 A. M. (Still.) Chimney fire in house of Wm. H. Bartlett on Eighth street. Extinguished by men from Central engine house.

December 24. Box 34. Fire in building northeast corner Union and and Bethel streets, belonging to estate of Sylvia Ann Howland and occupied by Henry Dutheridge. Cause, gas jet in contact with woodwork. Companies responding: Engines 2 and 4, Hook and Ladder No. 1, and Hose No. 1. Alarm given by Officer Fay. Loss on building, $35; insurance, $500. Loss on stock, $175; insurance, $2000.

December 24, 10.30 P. M. (Still.) Chimney fire in house belonging to Tucker Wilcox estate and occupied by Mrs. Gleason. Responded to by men from Central engine house and No. 5 house.

The following is the amount of losses by fire in this city for the past twelve years, together with the amount of insurance on same:

Years.	Loss.	Insurance.
1877,	$26,063.66	$21,528.36
1878,	28,154.46	66,025.00
1879,	9,163.16	54,950.00
1880,	7,609.13	49,450.00
1881,	26,624.96	86,979.00
1882,	23,169.64	692,950.00
1883,	17,398.14	77,450.00
1884,	134,729.82	310,950.00
1885,	6,982.41	148,025.00
1886,	26,786.03	1,108,800.00
1887,	45,141.50	708,150.00
1888,	32,881.87	125,927.00

Fire Alarm Telegraph, 1888.

SUPERINTENDENT.

FREDERICK MACY, Chief Engineer.

ASSISTANT SUPERINTENDENT.

DANIEL D. BRIGGS.

Residence, Engine house, N. W. cor. Bedford and South Sixth streets.

Office, City Hall.

LOCATION OF SIGNAL BOXES.

No. 3.	Lund's Corner.
4.	Acushnet Heights, near reservoir.
123.	Acushnet avenue, near Coffin avenue.
125.	Near gate-house, railroad crossing corner Bowditch and Weld streets.
126.	Cedar Grove and North Front streets.
5.	Linden and Ashland streets.
6.	Hazard and State streets.
7.	Purchase and Franklin streets.
8.	County and Pearl streets.
9.	Wamsutta street and Acushnet avenue.
12.	Shawmut avenue and Durfee street.
13.	Cedar and Locust streets.
14.	Purchase and Willis streets.
15.	Smith and Cedar streets.
16.	County and Hillman streets.
17.	Maxfield street and Acushnet avenue.
18.	Purchase and North streets.
21.	North and Water streets.
23.	Kempton, west of Florence street.
24.	Kempton and Cedar streets.
25.	County and Kempton streets.
26.	Water and Middle streets.

27. Purchase street and Mechanics lane.
28. Court and Cedar streets.
29. Arnold and Ash streets.
32. Union and Eighth streets.
34. Union and Water streets.
35. Fourth and School streets.
36. Walnut and Water streets.
37. Madison and Orchard streets.
38. Bedford and Sixth streets.
39. Acushnet avenue and Cannon street.
41. Hawthorn and Page streets.
45. Allen and Bonney streets.
46. South Water and Leonard streets.
47. Junction Sixth and County streets.
48. Water and South streets.
51. Dartmouth and Rockland streets.
52. Fourth street, head of Potomska.
56. South Water and Rivet streets.
57. Mosher and County streets.
58. South Water and Cove streets.
*61. Union Street Railway Horse Car Stables.
*62. Grinnell Mill.
*63. Wamsutta Mills.
*64. New Bedford Manufacturing Co.
*65. Hathaway, Soule & Harrington.
*67. New Bedford Cordage Factory.
*68. New Bedford Copper Works.
*71. Pairpoint Manufacturing Co.
*72. George Delano's Sons & Co's Works.
*73. Potomska Mills.
*74. Acushnet Mills.
*75. Morse Twist Drill Company.
*76. City Manufacturing Co.
*81. Howland Mills.

LIST OF FIRE ALARM KEYS FOR 1888.

1 Samuel C. Hart.
2 A. C. Tripp.
3 David Moncrief.
4 Engine house No. 1.
5 George A. Bourne.
6 Andrew M. Swift.
7 Silas D. Dammon.
8 Engine house No. 5.
9 Gosnold Mills Corporation.
10 Henry H. Fisher's bakery.
11 Lloyd B. Brown.
12 Seth Codding.
13 Philip Tripp.
14 Engine house No. 2.
15 County jail office.
16 James D. Thompson.
17
18 Wm. H. Sherman's stable.
19 Hart & Akin.
20 Henry Taber.

*Private boxes, only to be rung for fire on the premises.

21 Engine house No. 4.
22 Thomas B. Tripp.
23 City Planing Mill.
24 R. S. Cornell's stable.
25 Geo. Delano's Sons & Co.
26 Seth C. Caldwell.
27 William Hindle.
28 Frederick F. Moulton.
29 Samuel C. Moore.
30 E. Dews.
31 Joshua B. Ashley.
32 James E. Blake.
33 William A. Pease.
34 Josiah Richmond.
35 Lowe's store, corner Ash and Arnold streets.
36 Jireh Swift.
37 J. L. Paddock.
38 Mrs. Joseph R. Read.
39 E. Anthony & Son's office.
40 Mrs. C. M. Pierce, Jr.
41 John S. Cook's stable.
42 Mercury Publishing Co's office.
43 Frank C. Bliss.
44 John Clare.
45 Lost, May, 1885.
46 W. A. Robinson & Co's factory.
47 ——— Jenney.
48 Denison Bros.
49 Thomas J. Taft.
50 Arthur H. Jones.
51 Motin Yancy.
52 J. L. Wilber.
53 Lost, Dec., 1872.
54 James A. Wixon.
55 Seth E. Bryant.
56 Chief Engineer's office.
57 Patrick Carney.
58 Henry H. Fisher.
59 Michael F. Kennedy.
60 Lost, 1876.
61 Benjamin F. H. Reed.
62 Lost, Jan., 1874.
63 Horace G. Howland.
64 George H. Clark.
65 N. B. Gas Light Co.
66 Hastings & Co's factory.
67 Edward Kilburn.
68 L. T. Parlow.
69 P. B. Sherman.
70 A. A. Wood.
71 William E. Macomber.
72 Frederick Macy.
73 Moses H. Bliss.
74 Abraham H. Howland, Jr.
75 George L. Brownell.
76 James M. Tripp.
77 Potomska Mills Corporation.
78 John Corey.
79 Chief of Police office.
80 Isaac B. Tompkins.
81 Henry W. Bumpus.
82 Rufus A. Soule.
83 William H. Sherman.
84 L. D. Adams.
85 Luther M. Dayton.
86 Wamsutta Mill, gate-keeper's lodge.
87 A. Negus.
88 Chief Engineer's office.
89 Destroyed.
90 John W. Brady.
91 Henry Stevens.
92 James G. Sinclair.
93 West Police Station.
94 E. T. Case.
95 R. Moynan.
96 Police.
97 Joseph B. Wing.
98 Joseph D. L. Sisson.
99 Isaac M. Jones.
100 Lost, May, 1874.
101 Patrick Cannavan.
102 Allen L. Lee.
103 Frederick P. Bliss.
104 Thomas W. Comstock.
105 D. A. Butler.
106 Ellery T. Pierce.
107 F. Hussey.
108 W. G. Howland.
109 James Dowden.
110 James A. Mitchell.
111 John H. Gifford.
112 F. L. Hathaway.
113 David G. Kirby.
114 Lost, Nov., 1875.
115 J. W. Arnett.
116
117 William C. Gifford.
118 George W. Page.
119 Timothy Sullivan.
120 Daniel D. Briggs.
121 John Savage.
122 Eben C. Milliken's bakery.
123 Marcus W. Taber.
124 Rodolphus Beetle.
125 Bryant Bros.' factory.
126 Mrs. Henry T. Wood.
127 Lemuel M. Kollock.
128 D. A. Snell.
129 Thomas Boardman.
130 Robert S. Lawton.
131 G. A. Taylor.
132 L. G. Hewins, Jr.

133 Charles S. Paisler.
134 Lost.
135 Hathaway, Soule & Harrington.
136 Henry Howard.
137 Mt. Washington Glass Co.
138 Amanda M. Peirce.
139 Fred. A. Sowle.
140 S. P. Richmond.
141 E. H. Martin.
142 Cornelius J. Murphy.
143 George A. Cobb.
144 Augustus Harrington.
145 E. C. Taber.
146 Acushnet Paper Mill.
147 Engineer's office.
148 George S. Anthony.
149 Daniel J. Humphrey.
150 Charles H. Robbins.
151 Alexander O. Peirce.
152 Elisha E. Russell.
153 Chief of Police office.
154 Police.
155 Michael Stevens.
156 George S. Handy.
157 James Wilson.
158 No. 6. engine house.
159 Mrs. B. R. Paine.
160 Office.
161 Office.
162 Thomas Donaghy's store.
163 William A. Pease.
164 Frederick Cushman.
165 Henry W. Kenyon.
166 Washington A. Eldridge.
167
168 W. F. Wheaton.
169 T. B. Rowe.
170 Henry Parsons.
171 Tillinghast & Terry's watchman.
172 Thomas Pelan.
173 William Osgood.
174 Roland R. Ashley.
175 John H. Lowe.
176 William J. Marr.
177 John H. Thompson.
178 John Lincoln.
179 Lemuel T. Terry.
180 Chief Engineer of F. D.
181 Chief Engineer's house.
182 Horse car stable.
183 Old Colony R. R. gate-house.
184 James Davis.
185 D. A. Snell's house.
186 Abram Francis.
187 O. G. Brownell.
188 John Wing.
189 Charles C. Taber.
190 Chief Engineer's office.
191 Thomas M. Hart.
192 Jonathan Bourne.
193 J. G. Ellis.
194 Mt. Washington Glass Works.
195 Acushnet Mill.
196, 197 Grinnell Mill.
198 Pairpoint Mfg. Co.
199 Grinnell Mill.
200 N. B. Cordage Co.
201 Wamsutta Mills.
202, 203, 204, 205 N. B. Cordage Co.
206, 207 Acushnet Mills.
208, 209, 210, 211 Wamsutta Mills.
212 Grinnell Mill.
213 N. B. Manufacturing Co.
214 Hathaway, Soul & Harrington.
215 Potomska Mills.
216 Hathaway, Soul & Harrington.
217, 218, 219 Potomska Mills.
220, 221, 222, 223 New Bedford Mfg. Co.
224, 225 Hathaway, Soul & Harrington.
226, 227, 228, 229 M. T. D. & Machine Co.
230, 231, 232 N. B. Copper Co.
233 S. Eggers.
234 N. B. Copper Co.
235 George Delano.
236 Wamsutta Mills.
237 Pierce & Bushnell Manf. Co.
238 D. D. Briggs.
239 George W. Hillman.
240 James H. Sherman.

241 }
242 } George Delano.
243 }
244 William J. Clark.
245 Patrick Kennedy.
246 Chief of Police office.
247 Joseph H. Day.
248 }
249 } Chief of Police office.
250 }
251 John Ward.
252 Louis H. Richardson.
253 }
254 }
255 }
256 } New Bedford Gas Co.
257 }
258 }
259 }
260 W. K. Wagner.
261 Richard S. Taber.
262 Pairpoint Manufacturing Co.
263 George B. Wheeler.
264 Mrs. Leonard.
265 F. A. Sowle & Son.
266 Charles S. Kelley.
267 Horse car stables.
268 John C. Parker.
269 Thomas D. Howland.
270 William H. Mitchell.
271 ———Farrar.
272 James M. Lyons.
273 John Lowe.
274 Henry L. Dunham.
275 William F. West.
276 Benjamin H. Reed.
277 Calvin K. Turner.
278 Horse car stable.
279 N. B. & N. Y. Steamship Co.
280 Charles Randall.
281 George Vogel.
282 John H. Williams.
283 Chief of Police office.
284 Smith brothers.
285 I. H. Shurtleff.
286 Switch tender's lodge.
287 C. O. Andrews.
288 Orphans' Home.
289 John P. Taylor.
290 Rural cemetery gate.
291 G. L. Brownell.
292 A. H. Covell.
293 E. J. Collamore.
294 George B. Russell.
295 O. F. Bly.
296 L. A. Plummer.
297 C. E. Lee.
298 Edward D. Mandell.
299 Fred S. Potter.
300 Loum Snow.
301 George Howland.
302 No. 83 Dartmouth street.
303 A. Hurd.
304 Greene & Wood.
305 John Smith.
306 William H. Smith.
307 Horse Car Co.
308 Bowker & Tripp.
309 Walter Clifford.
310 King Manufacturing Co.
311 }
312 }
313 }
314 } Chief of Police.
315 }
316 }
317 Greenwood House.
318 E. Grinnell Iron Foundry.
319 Opera House office.
320 Brayton's wood yard.
321
322 Chief of Police.
323 F. O. Covil.
324 A. V. Jason.
325 Hugh McDonald.
326 S. C. Lowe.
327 Chas. Taber.
328 J. W. Howland.
329 J. H. Platt.
330 H. A. Blackmer.
331 A. B. Kimball.
332 John O'Brien.
333 Mrs. Farley.
334 Levi W. Bromley.
335 Edmund Terrien.
336 Capt. J. Sherman.
337 W. P. Booth.
338 F. Russell.
339
340 }
341 } Howland Mills.
342 }
343 }
344 }
345 } City Manfg. Co.
346 }
347 }
348 John Duff.

Location of Hydrants.

Acushnet Avenue.

Southwest corner of Tarkiln Hill road. Post.
West side, south of Tarkiln Hill road 500 feet. Post.
West side, south of Tarkiln Hill road 997 feet. Post.
West side, north of No. Belleville road 600 feet. Post.
West side, north of No. Belleville road 6 feet. Post.
West side, south of No. Belleville road 601 feet. Post.
West side, north of Shaw street 610 feet. Post.
Northwest corner of Shaw street. Post.
West side, north of So. Belleville road 603½ feet. Post.
West side, head of So. Belleville road. Post.
Northwest corner of Nash road. Post.
Northwest corner of Hathaway avenue. Post.
Northwest corner of Davis street. Post.
Southwest corner of Phillips avenue. Post.
Southwest corner of Deane street. Post.
West side, north of Sawyer street 574½ feet. Post.
Southwest corner of Coggeshall street. Post.
Southwest corner of Cedar Grove street. Post.
West side, south of Logan street. Post.
West side, north of Wamsutta street 514 feet. Double.
West side, north of Wamsutta street. Post.
West side, south of Wamsutta street 255 feet.
West side, at end of Wall street. Post.
Southeast corner of Pope street.
Northwest corner of Willis street.
West side, south of Campbell street 179 feet.
Northwest corner of Maxfield street.
Northwest corner of Kempton street.
Northeast corner of Elm street.
Northwest corner of School street. Post.
Northwest corner of Madison street.
Northwest corner of Russell street.

Northwest corner of Bedford street.
West side, head of Howland street.
Northeast corner of Potomska street. Post.
West side, north of Rivet 158 feet. Post.
Southwest corner of Blackmer street.

Allen Street.

Southeast corner of Bonney street.
Northwest corner of Ward street.
North side, east of Page street 159 feet.

Arch Street.

Southwest corner of Union.

Arnold Street.

South side, west of Orchard street 96 feet. Post.
Southeast corner of Emerson street.
Southeast corner of Atlantic street.

Ash Street.

Northwest corner of Middle street.
Southwest corner of Morgan street. Double.
Northwest corner of Arnold street.
Northwest corner of Maple street.
Northwest corner of Bedford street. Post.

Ashland Street.

West side, head of Linden street.

Atlantic Street.

West side, north of Arnold street 390 feet. Post.
West side, south of Arnold street 186 feet. Post.

Austin Street.

Southwest corner of Purchase street. Post.
Southeast corner of State street. Post.

Southeast corner of Cedar street. Post.
South side, on west line Wilson street. Post.
Southwest corner of Ashland street. Post.
Southeast corner of Shawmut avenue. Post.

Bay Street.

Southeast corner of Ward street. Post.

Bedford Street.

Southwest corner of Fifth street.
Southeast corner of County street.
Southeast corner of Orchard street.

Beach Street.

Northwest corner of Kempton street. Post.

Blackmer Street.

South side, east of Front 575 feet. Post.

Bonney Street.

Northwest corner of Grinnell street.
Northwest corner of Rockland street. Post.

Borden Street.

Southwest corner of Bay street. Post.

Bowditch Street.

West side, north of Cedar Grove street 244 feet. Post.
West side, south of Cedar Grove street 313 feet. Post.
Southwest corner of Weld street. Post.

Bridge Avenue.

North side, west of draw 44 feet.
South side, west of draw 11 feet.

Brownell Street.

West side, north of Union 74 feet. Post.

Campbell Street.

South side, east of County 163 feet. Post.
South side, east of Emerson street 205 feet.
Southwest corner of Cypress street. Post.

Cannon Street.

South side, east of Second street 164 feet.

Cedar Street.

Northwest corner of Elm street. Double.
Southwest corner of Kempton street.
West side, north of Mill street 75 feet.
Southwest corner of Hillman street.
Northwest corner of Sycamore street.
Southwest corner of Campbell street.
Southwest corner of Parker street.

Cedar Grove Street.

Southeast corner of Front street. Post.
Southeast corner of Howard street. Post.
South side, west of Bowditch street 383 feet. Post.
Northwest corner of Purchase street. Post.

Centre Street.

South side, east of Water street 85 feet.

Chancery Street.

West side, north of Parker street 263 feet. Post.
West side, south of Parker street 176 feet. Post.
Southwest corner of Hillman street.
Southwest corner of Elm street. Post.
West side, north of Arnold street 405 feet. Post.

Cherry Street.

Southeast corner of Seventh street.

Chestnut Street.

Southwest corner of North street.
West side, north of Campbell street 96 feet.

Clark Street.

Southwest corner of State street.

Clinton Street.

South side, east of Orchard street 125 feet.
South side, west of Ash street 242½ feet. Post.

Coffin Avenue.

Southwest corner of North Purchase street. Post.
South side, opposite Oneko lane. Post.
Southeast corner of Bowditch street. Post.

Coffin Street.

North side, east of Water street 262 feet.

Coggeshall Street.

South side, east of Howard street 117.5 feet. Post.
Northwest corner of Purchase street. Post.
Southeast corner of County street. Post.

Commercial Street.

North side, east of Front street 82 feet. Post.

Cottage Street.

Southwest corner of Bay street. Post.
Northwest corner of Allen street.
Northwest corner of Bedford street.

Northwest corner of Hawthorn street.
Southwest corner of Arnold street.
Southwest corner of Union street.
Southwest corner of Kempton street. Post.
Northwest corner of Hillman street.
Northwest corner of Sycamore street.
West side, north of Locust street 263 feet. Post.

County Street.

West side, north of Coggeshall street 200 feet. Post.
West side, south of Clark street 234½ feet. Post.
West side, south of Weld street 115 feet. Post.
Southwest corner of Austin street. Post.
Northwest corner of Locust street.
Northwest corner of Parker street.
Southwest corner of Smith street.
Southwest corner of Maxfield street.
Southwest corner of North street.
Southwest corner of Middle street. Double.
Southwest corner of Morgan street.
Northwest corner of Union street.
West side, head of School street.
Northwest corner of Madison street.
Southwest corner of Hawthorn street.
Northwest corner of Allen street.
Southwest corner of Grinnell street.
West side, head of South street.
Northwest corner of Rockland street.
Southwest corner of Thompson street. Post.
Northwest corner of Rivet street. Post.
Northwest corner of Winsor street. Post.
West side, north of Division street 71 feet. Post.
Northwest corner of Cove road.

Court Street.

Southwest corner of Orchard street.
South side, head of Cedar street.
South side, head of Emerson street.
South side, west from Park street 304 feet.
South side, head of Jenney street. Post.
South side, east of Reed street 300 feet. Post.
Northeast corner of Ash street. Post.

Cove Street.

South side, east of Water street 487 feet.
South side, west of Water street 334½ feet. Post.
Southeast corner of County street. Post.

Crapo Street.

West side, south of Washington street 343 feet.
West side, south of Rockland street 225 feet.
West side, south of Thompson street. Post.

Dartmouth Street.

Southeast side, southwest of Orchard street 110 feet.
Southeast side, southwest of Hickory street 125 feet. Post.
East side, south of Rockland street 260 feet. Post.
East side, south of Thompson street 99 feet. Post.
East side, south of Rivet street 17 feet. Post.

Delano Street.

Southwest corner of Water street. Post.
Southwest corner of Acushnet avenue. Post.

Division Street.

Southeast corner of Second street. Post.
South side, west of County street 527 feet. Post.
South side, east of Crapo street 60 feet. Post.

Durfee Street.

Southwest corner of Cedar street. Post.
Southwest corner of Bulloch aveuue. Post.
Southwest corner of Shawmut avenue. Post.

Elm Street.

Southwest corner of Pleasant street.
Southwest corner of Summer street.
Southeast corner of Reed street. Post.

Emerson Street.

Southwest corner of Willis street.
Southwest corner of Parker street.

Fifth Street.

Southwest corner of School street. Post.
West side, south of Madison street 245 feet.
Northwest corner of Grinnell street.
Northwest corner of Wing street. Post.

First Street.

Southwest corner of Spring street.
West side, south of School street 109 feet.
West side, south of Howland street 185 feet.
West side, south of South street 255 feet.

Florence Street.

West side, north of North street 180 feet. Post.
Northwest corner of Mill street. Post.
West side, south of Kempton street 126 feet. Post.
Southwest corner of Morgan street. Post.

Forest Street.

South side, west of County street 90 feet.

Foster Street.

Southwest corner of Maxfield street.
Northwest corner of High street.

Fourth Street.

West side, north of School street 106 feet.
West side, south of Madison street 210 feet.
East side, foot of Washington street. Post.
Northwest corner of Rockland street.
West side, south of Potomska street 61 feet. Post.

Franklin Street.

Southwest corner of Pleasant street.
Southwest corner of State street. Post.

French Avenue.

West side, south of Clark's Point road 14 feet.

Front Street.

West side, north of Delano street 191 feet. Post.
West side, south of South street 330 feet. Post.
Southwest corner of Grinnell street. Post.
West side, south of Howland street 268 feet. Post.
Northwest corner of lane head of Merrill's wharf.
West side, south of Commercial street 86 feet.
Southwest corner of Centre street.
Southwest corner of Hazard's wharf.
Southeast corner of Wamsutta street. Post.
West side, south of Logan street 383 feet. Post.
West side, south of Washburn street 319 feet.

Fruit Street.

South side, east of Hemlock street 126½ feet. Post.

Grape Street.

South side, west of Lewis street 131 feet. Post.
South side, west of Lewis street 517½ feet. Post.

Griffin Street.

Southwest corner of Second street.

Grinnell Street.

Southwest corner of Orchard street. Post.
South side, east of Crapo street 103 feet.
South side, west of Acushnet avenue 76 feet.

Grove Street.

Southwest corner of Anthony street.

Harrison Street.

Southwest corner of Hickory street. Post.

Hawthorn Street.

Southeast corner of Page street.
South side, east of Tremont street 147 feet. Post.
Southwest corner of Brigham street. Post.
South side, west of Brigham street 301 feet. Post.

Hazard Street.

South side, west of State street 140 feet.
Southwest corner of Pleasant street.

Hicks Street.

South side, east of Acushnet avenue 276 feet. Post.

High Street.

South side, east of Acushnet avenue 43 feet.
South side, east of County street 177 feet.

Hillman Street.

Southwest corner of Second street.
Southeast corner of Hill street.

Howland Mill Avenue.

West side, south of Rivet street 1027 feet. Post.
Northwest corner of Howland Mill street A (north). Post.

Howland Mill Street A (North).

South side, west of Howland Mill avenue 246 feet. Post.

Howland Mill Street B (Middle).

South side, west of Howland Mill avenue 227 feet. Post.

Howland Mill Street C (South).

Southwest corner of Howland Mill avenue. Post.
South side, west of Howland Mill avenue 256 feet. Post.

Howland Street.

Northeast corner of Second street.

Irving Court.

North end of court.

James Street.

West side, south of Union 102½ feet. Post.

Katherine Street.

South side, east of Crapo street 300½ feet. Post.

Kempton Street.

Southwest corner of Pleasant st.
South side, head of Hill street.
Southwest corner of Summer street.
Southwest corner of Emerson street.
Southwest corner of Park street.
Southwest corner of Liberty street.
Southeast corner of Jenney street.
South side, west of Hunter street 50 feet. Post.
Southwest corner of Francis street. Post.

Kilburn Street.

North side, east of Front street 244 feet. Post.
North side, east of Front street 581 feet. Post.

Liberty Street.

West side, south of Kempton street 339 feet.

Lincoln Street.

West side, south of Union street 171 feet.

Linden Street.

South side, west of State street 13½ feet. Post.
South side, west of County street 169 feet. Post.
South side, west of Reynolds street 67½ feet. Post.
South side, east of Ashland street 6½ feet. Post.

Lindsey Street.

West side, south of Kempton street. Post.
Northwest corner of Morgan street. Post.

Locust Street.

Southwest corner of Chestnut street. Post.
Southwest corner of Richmond street. Post.

Logan Street.

Southwest corner of Acushnet avenue.
South side, east of Acushnet avenue 400 feet.
Southwest corner of Front street.

Lombard Street.

West side, south of Rockland street 209½ feet. Post.

Madison Street.

Southwest corner of First street.

Maitland Street.

South side, west of Cedar street 305 feet. Post.

Maxfield Street.

Southwest corner of Second street. Post.
Southeast corner of Chestnut street.
Southeast corner of Spruce street.
Southeast corner of Ash street. Post.
Southwest corner of Pleasant street. Post.

Merrimac Street.

Southwest corner of State street. Post.

Mechanics Lane.

North side, east of Eighth street 206 feet.

Middle Street.

Southeast corner of Second street.
Southeast corner of Sixth street. Double.
South side, east of Cedar street 371 feet.
Southeast corner of Chancery street.

Mill Street.

South side, west of Hill street 191 feet.
South side, west of Ash street 45 feet.

Morgan Street.

Southwest corner of Cottage street.

Mosher Street.

South side, west of County street. Post.

Mount Pleasant Street.

Southwest corner of Distributing Reservoir.
West side, north of Durfee street 572 feet.
Northwest corner of Durfee street. Post.

Mount Vernon Street.

South side, west of Mount Pleasant street 359 feet.

Newton Street.

Northwest corner of Elm street. Post.

North Street.

Southeast corner of Second street. Post.
Southeast corner of Acushnet avenue.
Northwest corner of Pleasant street. Post.
Southwest corner of Foster street.
Southwest corner of Park street. Post.
Southeast corner of Newton street. Post.
Southwest corner of Hunter street. Post.

Oak Street.

South corner of Harrison street. Post.

Ocean Street.

West side, south of Arnold street 184½ feet. Post.

Old Point Road.

West side, east of French avenue 650 feet.

Orchard Street.

West side, head of Madison street.

Park Place.

South side, west of Sixth street 306 feet.

Park Street.

West side, south of Kempton street 339 feet. Post.
Northwest corner Court street. Post.
West side, north of Arnold street 263 feet. Post.

Parker Street.

Southwest corner of Summer street.
South side, at Oak Grove Cemetery. Post.

Pearl Street.

Southwest corner of Pleasant street. Post.

Penniman Street.

South side, west of State street 220 feet.

Pine Street.

Northwest corner of Cross street.

Pleasant Street.

Southwest corner of Market street.
West side, north of William 21½ feet. Post.
East side, opposite Sycamore street. Post.
Northwest corner of Pope street.
Northwest corner of Austin street.
Southwest corner of Linden street.
Southwest corner of Weld street.

Pope Street.

South side, opposite North Oak street.

Potomska Street.

200 feet east of Prospect street and 91 feet north of south line of Potomska street. Group of three. Post.

Prospect Street.

West side, south of Howland street 157 feet.
Northwest corner of Grinnell street. Post.
West side, north of Potomska street 324½ feet. Post.
Northwest corner of Potomska street. Post.

Purchase Street.

Northwest corner of Dean street. Post.
West side, opposite Oneko Mill. Post.
East side, foot of Clark street. Post.
West side, head of Logan street.
Northwest corner of Merrimac street. Double.
Northwest corner of Pope street.
Southwest corner of Pearl street. Double.
Southwest corner of Campbell street.
West side, north of Maxfield street 343 feet. Double.
Southwest corner of Hillman street. Double.
Southwest corner of Mill street.
Northwest corner of Middle street.
Northwest corner of Mechanics lane. Post.
Northwest corner of Union street.

Reynolds Street.

Southwest corner of Weld street. Post.
West side, north of Weld street 268 feet. Post.

Rivet Street.

Southwest corner of Second street.
Southwest corner of Bonney street. Post.
Southwest corner of Hemlock street. Post.
Southeast corner of Howland Mill avenue. Post.

Robeson Street.

Southwest corner of County street. Post.
Southeast corner of Cedar street. Post.
South side, west of Cedar street. Post.
Southwest corner of Ashland street. Post.

Rock Street.

Southwest corner of Washburn street. Post.

Rockland Street.

Southeast corner of Hall street. Post.
South side, west of Orchard street 13 feet. Post.
Southwest corner of Lombard street. Post.

Rounds Street.

Northwest corner of Elm street. Post.

Russell Street.

South side, east of Fifth street 92 feet.

Sawyer Street.

Southwest corner of Bowditch street. Post.
Southwest corner of Acushnet avenue. Post.

Second Street.

Northwest corner of Mill street.
West side, south of Elm street 52 feet. Post.
West side, south of Spring street 74 feet.
Northwest corner of Coffin street.
West side, head of Morgan's lane. Post.
West side, north of Grinnell street 61 feet.
West side, north of Potomska street 232 feet. Post.
West side, south of Potomska street 122 feet. Post.
West side, south of Blackmer street. Post.

Seventh Street.

West side, north of Madison street 50 feet.
Southwest corner of Union street. Post.

Sherman Street.

South side, west of County street 314 feet.

Sisson Street.

West side, south of Court 120 feet. Post.

Sixth Street.

Southwest corner of School street.
Northwest corner of Madison street.
Southwest corner of Russell street.
Northwest corner of Wing street.
West side, north of Grinnell street 194 feet.

Smith Street.

Southwest corner of Chestnut street. Double.
Southeast corner of Spruce street. Double.
Southeast corner of Emerson street.
South side, east of Park 5 feet. Post.

South Street.

Southwest corner of Acushnet avenue.
Southwest corner of Second street.
Southwest corner of Prospect street.

Spring Street.

Southwest corner of Seventh street.
Southeast corner Fifth street.
Southeast corner of Acushnet avenue. Post.

State Street.

Northwest corner of Sycamore street.
Southwest corner of Pearl street.

Summer Street.

Southwest corner of Willis street.
Northwest corner of Hillman street.
Northwest corner of North street.

Sycamore Street.

Southwest corner of Thomas street.
Southwest corner of Summer street.
South side, west of Ash street 68 feet.

Taber's Wharf.

South side, north of Union street 36 feet.

Thomas Street.

Northwest corner of Hillman street.

Thompson Street.

South side, east of Hall street. Post.

Tremont Street.

West side, south of Arnold street 287 feet.
Southwest corner of Union street. Post.

Union Street.

Southwest corner of Water street. Double.
Southeast corner of Second street.
Southwest corner of Acushnet avenue. Double.
Southwest corner of Sixth street. Post.
Southeast corner of Emerson street. Post.
South side, west of Park street 344 feet. Post.

Walden Street.

Southwest corner of Maxfield street.

Wall Street.

South side, east of Acushnet avenue 165 feet.

Walnut Street.

Northwest corner of Front street. Post.
Southwest corner of Second street.
Southeast corner of Fourth street. Double.
Southwest corner of Seventh street. Post.

Wamsutta Street.

South side, east of Acushnet avenue 285 feet. Double.
South side, west of Front street. Post.
South side, west of Front street. Post.

Washburn Street.

Southeast corner of Acushnet avenue.
South side, west of North Front street 228 feet.

Washington Street.

Southeast corner of Crapo street.
South side, west of Orchard street 102 feet.
Southeast corner of Dartmouth street.

Water Street.

Southwest corner of Hillman street.
Southeast corner of North street. Post.

West side, south of North street 258 feet.
Northwest corner of Middle street. Double.
Southwest corner of Elm street.
West side, north of Centre street 46 feet.
West side, north of School street 22 feet.
Northwest corner of Walnut street.
Northeast corner of City wharf.
Northwest corner of Coffin street.
West side, head of Pine street. Post.
West side, head of Leonard street. Double.
Northwest corner of Howland street.
Northwest corner of Grinnell street.
Northwest corner of South street.
West side, north of Potomska street 31 feet.
Northwest corner of Rivet street.
Southwest corner of Blackmer street.
Southwest corner of Delano street.
West side, south of Division street 285 feet.
Southwest corner of Cove street.

Weld Street.

Southwest corner of State street. Post.

William Street.

Southwest corner of Eighth street.
Southwest corner of Sixth street. Post.
Southeast corner of Acushnet avenue.
Southwest corner of Bethel street.

Willis Street.

Southwest corner of State street.
South side, east of Willis court 42½ feet. Post.
Southwest corner of Cottage street. Post.
South side, west of Cedar street 200 feet.
Southeast corner of Pleasant street. Post.

Wing Street.

Southwest corner Fourth street.

Winsor Street.

South side, west of County street 455½ feet. Post.

Location of Reservoirs.

Durfee street, southeast corner of Shawmut avenue.
Linden street, northeast corner of Ashland.
Franklin street, southwest corner of State.
Willis street, northeast corner of State.
Campbell street, west side of Purchase.
Smith street, southeast corner of Cypress.
Pleasant street, between Maxfield and Sycamore.
County street, southeast corner of Maxfield.
Pleasant street, southwest corner of North.
Chestnut street, between Mill and North.
Mill street, southwest corner of Purchase.
Kempton street, between Cypress and Cedar.
High street, near northeast corner of Foster.
Middle street, near southeast corner of Purchase.
Middle street, west of grammar school.
County street, front of M. E. church.
North Second street, northwest corner of William.
City Hall square, west of hall.
Court street, near head of Orchard.
Union street, southwest corner of County.
Union street, southeast corner of Fourth.
School street, northwest corner of Fourth.
South Second street, northwest corner of Walnut.
South Sixth street, northwest corner of Walnut.
Orchard street, east side, below Hawthorn.
Russell street, between County and South Sixth.
Acushnet avenue, southeast corner of Cannon street.
Bedford street, southeast corner of Fifth street.
South Sixth street, southwest corner of Wing.
Acushnet avenue, southeast corner of Grinnell street.
Washington street, northeast corner of Crapo.

Inventory of City Property

IN POSSESSION OF THE FIRE DEPARTMENT AND IN USE JANUARY 1, 1889.

BUILDINGS, APPARATUS, ETC.

6 brick engine houses.
1 wooden engine house.
6 steam fire engines.
1 hand fire engine.
7 horse hose carriages.
3 sleigh hose reels.
1 hand hose carriage.
3 hook and ladder trucks (1 old).
11,650 feet 2½-inch cotton hose.
25 horses.
250 feet hand hose.
10 pairs double harnesses.
9 single harnesses and 1 lead.
33 horse blankets.
8 horse brushes.
8 curry combs.
7 mane brushes.
5 cards.
13 whips.
6 grain chests.
4 feed troughs.
13 pitchforks.
29 pails.
20 brooms.
3 hoes.
1 rake.
20 shovels.
13 pokers.
18 axes.
3 hatchets.
8 iron bars.
19 halters.
6 sets lead bars.
5 leather buckets.
130 chairs.
3 bureaus.
4 sets hay hooks and blocks.
36 door keys.
15 tables.
13 mirrors.
14 bedsteads.
15 mattresses.
17 pillows.
11 pillow cases.
12 sheets.
18 blankets.
15 towels.
15 bedquilts.
11 bedspreads.
79 carpets.
1 clocks.
36 tower ropes.
100 feet hose rope.
4 suction hose ropes.
1 spare hook and ladder pole.
167 firemen's badges.
2 powder-house keys, bag, and fuse.
1 rope for fire hooks.
6 dust pans.
6 dust brushes.
5 floor brushes.
5 scrub brushes.
2 tube brushes.
7 mops.
7 feather dusters.
32 baskets.
4 wood saws.
4 saw horses.
4 grate patterns.
7 step ladders.
11 settees.
4 American ensigns.
41 lanterns.
5 stoves and pipes.
2 spare engine poles.
1 leather cover for Franklin Hose.

5 coal hods.
11 brass hydrant connections.
15 iron hydrant wrenches.
28 discharge pipes.
65 discharge nozzels.
59 leading hose wrenches.
38 engine wrenches.
6 jackscrews and bars.
6 work benches.
7 iron vises.
11 oil cans.
10 oil feeders.
4 waste boxes.
6 connections, $2\frac{1}{2}$ to $4\frac{1}{2}$.
1 connection, 2 to $2\frac{1}{2}$.
18 pump leathers, extra.
5 hose troughs.
13 hose brushes.
5 pipes for hand hose.
14 wrench belts.
10 wheel fenders.
1 iron kettle.
2 copper tanks (1 old).
4 watering pots.
12 grain measures.
1 box castile soap.
7 chamois skins.
5 lbs. sponge.
7 wagons with poles and shafts.
65 coal baskets.
6 sets blocks and falls.
9 hammers.
7 wagon jacks.
28 ladders, from 10 to 65 feet.
8 fire hooks and pikes.
2 tube scrapers.
8 ropes (hook and ladder).
3 stands.
12 spittoons.
2 wardrobes.
1 window brush.
1 water cooler.
3 soap dishes.
3 mugs.
6 cold chisels.
4 stable gongs.

SUPPLIES AND MATERIAL ON HAND.

1 waste box.
4 pump leathers, extra.
2 wheel fenders.
5 extra wheels for engines.
1 gate wrench.
11 taps.
4 spare grates. Nos. 1, 2, 4, 5.
1 box fire extinguisher chemicals.
9 fire extinguishers.
1 set horse slings.
1 set sleigh runners.
6 safety valve springs.
5 new couplings, full set.
5 new couplings, half set.
1 grindstone.
1 draw shaver.
1 jack plane.
1 pair rivet cutters.
1 lot patterns for doors, etc.
6 lbs. rubber packing.
1 water test gauge.
2 iron tool boxes.
2 engine heaters.
35 lbs. cotton waste.
3 sets flue tools.
2 cords wood.
20 lbs. cordage.
3 bars harness soap.
10 valve springs.
1 set badge dies.
2 quires emery paper.
3 glass tubes—water gauge.
20 lbs. rock salt.
1 suction strainer.
1 engine spring, No. 3.
2 engine springs, No. 2.
1 tunnel.
1 two-quart measure.
4 tons of hay.
$2\frac{1}{2}$ tons of straw.
30 bushels of grain.
4 P. S. ropes.
1 spare steam gauge.
1 set tube expanders.
1 set repairing tools and chest.
1 set relief valve connections.
15 lbs. washer leather.
3 boxes disinfectant.
1 sledge hammer.
1 hand saw.
1 washer cutter.
1 bitstock.
1 pair compasses.
5 brass gauge cocks.
12 new copper tubes.
24 copper rings for leading hose.
1 gate for Steamer No. 2.
1 lb. hemp packing.
13 galls. petroleum oil, and can.
10 galls. sperm oil, and can.
7 galls. neatsfoot oil, and can.
119 feet $4\frac{1}{2}$-inch suction, good.

10 sets new hose coupling.
1 spare axle.
1 machine to put couplings on.
25 tons of Cannel coal.
15 tons of coal for engine house.
5 pounds of rotten stone.
5 spring locks, 30 keys.
1 set weighing scales.
3 tube brushes.
6 scrub brushes.
50 pounds common soap.
8 boxes Green Mountain ointment.
24 dozen candles.
1 carpet sweeper.

ENGINEERS' OFFICE FURNITURE.

1 carpet.
1 desk.
1 book case.
1 copying press.
1 table.
1 clock.
6 chairs and cushions.
1 swivel chair.
1 marble top sink.
1 gas drop light.
14 framed pictures.
1 looking glass.
1 city map.
6 towels.
1 comb and brush.
1 broom.
1 dust pan and brush.
1 carpet sweeper.
1 small feather duster.
1 stove, with copper pipe.
2 pieces of oil cloth.
1 coal hod and shovel.
2 foot mats.
2 spittoons.

FIRE ALARM TELEGRAPH AND SUPPLIES.

51 alarm boxes.
24 miles of line wire.
9 bell strikers.
8 15-inch gongs.
1 10-inch gong.
11 7-inch gongs.
3 repeaters.
2 switch boards.
1 repeater switch.
1 battery rack.
150 cups in battery.
1 hydrometer.
1 rubber syringe.
1 thermometer.
3 tapper gongs.
13 church door keys.
320 alarm box keys.
1 copper hand basin.
5 screw drivers.
5 pairs cutting pliers.
1 axe.
1 chemical extinguisher.
2 vises and straps.
2 tool belts.
1 pair pole climbers.
3 gimlets.
1 bit and stock.
2 hammers.
1 monkey wrench.
2 iron bars.
2 extension ladders.
2 sets steel letters.
1 small pipe wrench.
5 tin oiler pans, for bell strikers.
2 shovels.
1 posthole spoon.
2 paint brushes.
1 life line.
1 soldering kettle.
1 iron melting pot for zinc.
1 plaster hook.
1 iron ladle.
1 iron mould for zinc.
1 bull's eye lantern.
13 battery cups, spare.
1829 lbs. sulphate of copper.
250 battery zincs.
20 hangers for zinc.
1331 lbs. iron wire.
45 glass insulators.
12 hook insulators.
35 iron brackets.
2 spare poles.
11 alarm box hinges.
1 alarm box magnet.
1 15-inch gong magnet.
6 old leather fire buckets, date 1829.
3 paper alarm registers.
3 Pierce & Griswold registers.
1 iron tackle block for bell striker.

PROTECTING SOCIETY.

20 rubber covers, 8x12.
5 rubber covers, 8x15.
6 squilges.
4 ladders.
1 piano harness.
175 cover hooks.
2 cartridge boxes.
2 steel hammers.
2 screw drivers and sheaths.

REPAIR SHOP.

1 brick shop.
1 portable forge.
1 set pipe dies and taps, from ¼ to 1 inch.
2 pipe cutters.
1 bench and vise.
1 set pipe dies and taps, from 1¼ to 2 inches.
8 bolt taps.
100 lbs. wrenches.
2 sets tube expanders.
6 files.
3 gross screws.
1 set tap wrenches.
1 large monkey wrench.
1 small monkey wrench.
1 hammer.
1 Stillson pipe wrench, 24-inch.
1 Stillson pipe wrench, 12-inch.
1 Stillson pipe wrench, 8-inch.
150 lbs. nails.
3 cold chisels.
12 file handles.

1889—CITY DOCUMENT NO. 6.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF NEW BEDFORD,

TOGETHER WITH THE SUPERINTENDENT'S ANNUAL REPORT,

FOR THE YEAR 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

REPORT.

By direction of the School Committee I submit to our fellow-citizens the following Report for the year 1888.

STATISTICS OF THE SCHOOLS.

I. POPULATION.

The population of the city (census of 1880) was	26,875
The population of the city (census of 1885) was	33,393
School census, May, 1888 (children between 5 and 15 years of age),	6208

BY WARDS.

Ward One,	1964
Ward Two,	703
Ward Three,	649
Ward Four,	457
Ward Five,	753
Ward Six,	1682

The last school census shows a growth in population of children between the ages of five and fifteen years since 1883 of 1077.

Owing to the rapid growth of the city, the enrollment of pupils in the public schools is about the same as in 1883, although (1500) fifteen hundred pupils have been withdrawn from them during that time. All the private schools

of the city have enrolled during the year 1855 pupils. If the number enrolled in the public day schools during the year (5477) be added to those enrolled in the private schools the sum total is 7332, the total number of pupils enrolled in all the day schools of the city. Probably a few pupils have been enrolled in both public and private schools, and their names may have been computed twice in making up the total enrollment. This contingency has been guarded against, however, as far as possible, and the figures given above are as near correct as care can make them.

II. SCHOOLS.

High,	1
Grammar,	4
Primary,	13
Country,	6
Mill,	2
Farm,	1
Total,	27

III. SCHOOL BUILDINGS.

Number of buildings owned by the city,	25

ROOMS USED FOR SCHOOL PURPOSES (DAY SCHOOLS).

High,	15
Grammar,	39
Primary,	53
Mill,	2
Country,	10
Farm,	1
Rooms available not used for day schools,	3
Total,	123
Rooms used for both day and evening schools,	19
" " " evening schools only,	3
" " " " drawing schools,	3
Total,	25

IV. TEACHERS.

Whole number in service, Dec., 1888,		166
As follows:		
High school,	11	
Grammar schools,	39	
Primary schools,	52	
Mill schools,	2	
Country schools,	10	
Special teachers,	7	
Farm school,	1	
Temporary assistants,	5	
Evening schools,	39	
Total,		166

V. PUPILS. (DAY SCHOOLS, 1888.)

	Boys.	Girls.	Total.
Whole number pupils enrolled of all ages,	2690	2787	5477
Average number of pupils belonging,			3988
Average daily attendance,			3652
Per cent. of attendance,			.91
Number of half-days' absence,			112,593
Number cases tardiness,			13,779
Number cases dismissal,			11,423
Number cases truancy reported by teachers,			270
Number cases corporal punishment,			2274
Half-days' absence of teachers,			675
Number cases tardiness by teachers,			156
Number of visits made the schools by superintendent,			376
Number of visits made the schools by the committee,			423

EVENING SCHOOLS. (FALL TERM, 1888.)

	Boys.	Girls.	Total.
Whole number pupils enrolled,	877	543	1420
Average number belonging,			992
Average nightly attendance,			764
Per cent. of attendance,			.77

EVENING DRAWING SCHOOL.

	Boys.	Girls.	Total.
Whole number pupils enrolled,	74	13	87
Average number belonging,			67
Average nightly attendance,			60
Per cent. of attendance,			.89

PRIVATE SCHOOLS, 1888.

Whole number pupils enrolled,	1855
Average daily attendance,	1467

HIGH SCHOOL. (SPECIAL REPORT.)

Whole number enrolled in High school by grades, Sept. 3 to Dec. 21, 1888:

	Boys.	Girls.	Total.
Post graduates,	4	7	11
Class I.,	19	40	59
Class II.,	25	58	83
Class III.,	35	53	88
Class IV.,	55	56	111
Totals,	138	214	352

Whole number enrolled in High school by grades, Sept. to Dec., 1887.

	Boys.	Girls.	Total.
Post graduates,	2	9	11
Class I.,	21	34	55
Class II.,	23	50	73
Class III.,	32	65	97
Class IV.,	54	74	128
Totals,	132	232	364

Instead of a detailed statement of the school statistics for the Fall term only being given in connection with this part of the report, a table embodying the reports of each school for the whole year is appended to the superintendent's report.

COST OF INSTRUCTION PER SCHOLAR.

The statistics of this table, in conformity to the statute, include hire of teachers, fuel, care of school houses, books furnished by the city, and supplies in general, except those from the income of the Howland fund. The basis of computation is the average number belonging to each school. The term "care of school houses" includes only the salaries of janitors.

The cost of maintenance of each scholar in the High school for the year has been	$44.37
Grammar schools:	
Fifth street,	23.16
Middle street,	24.68
Parker street,	22.36
Thompson street,	23.88
Primary schools:	
Acushnet avenue,	17.24
Arnold street,	24.34
Cedar street,	17.53
Cedar Grove street,	21.75
Dartmouth street,	18.77
Fourth street,	18.63
Grove,	17.26
Kempton street,	16.22
Linden street,	22.03
Merrimac street,	26.70
Maxfield street,	21.98
Thompson street,	16.00
William street,	21.05
Country schools:	
Acushnet,	22.16
Cannonville,	14.79
Clark's Point,	35.32
North,	22.76
Plainville,	22.66
Rockdale,	24.15
North mill,	40.39
South mill,	32.12
The average cost of maintenance of a grammar scholar has been	$23.34
Primary scholar,	19.09
Of a scholar in a country school,	21.14
Of a scholar in a mill school,	36.58
Of a scholar in an evening school,	5.14

As has been stated in previous reports, no just comparisons can be instituted, based on this table, as to the degree

of economy exercised in the different schools; the circumstances of the various schools are so different. Some schools have a much smaller number of scholars to a teacher than others, and this circumstance greatly increases the comparative cost per scholar. Still again, the methods of heating some of the school houses involve a much greater expense for fuel and oversight than is the case with others, with similar results as to the comparative cost.

Respectfully submitted.

WM. E. HATCH,
Secretary.

EXPENDITURES.

The Committee on Expenditures herewith submit their Report for the year 1888, as follows:

RECEIPTS.

From annual and special appropriations:		
For teachers' salaries,	$81,000.00	
Incidentals (including text books),	24,503.30	
Repairs of school buildings,	4,600.00	
	$110,103.30	
Dog fund,	400.00	$110,503.30

PAYMENTS.

For teachers' salaries,	$78,792.02	
Incidentals (including text books),	27,100.87	
Repairs of school buildings,	4,150.09	
Rent of superintendent's office, and pay of janitor for same,	400.00	110,442.98
Balance unexpended,		$60.32

The sum of $544.15 has been received during the year from non-resident pupils and paid to the city treasurer, who has placed the same to the credit of unappropriated funds.

For the Committee.

WM. H. MATHEWS, Chairman.

SYLVIA ANN HOWLAND EDUCATIONAL FUND.

Balance of income on hand January 1st, 1888,	$760.20
Interest for the year,	3000.00
Total credit,	$3760.20
Expenditures for the year,	2363.54
Balance on hand January 1st, 1889,	$1396.66

The disbursements to the several schools from the income of the above-named fund for the year 1888 are as follows, viz.:

High school,	$420.18	
Parker street grammar school,	50.14	
Middle " " "	77.30	
Fifth " " "	94.86	
Thompson street " "	67.20	
Linden " primary "	45.86	
Merrimac " " "	42.74	
Maxfield " " "	16.78	
Cedar " " "	82.58	
Cedar grove " " "	21.80	
Kempton " " "	38.05	
William " " "	16.74	
Fourth " " "	62.28	
Acushnet avenue " "	147.76	
Dartmouth street " "	74.91	
Grove " "	15.56	
Thompson street " "	123.83	
Arnold " " "	6.24	
South mill "	20.35	
Central evening "	8.50	
Truant "	1.56	
Acushnet "	43.11	
Clark's Point "	8.80	
Cannonville "	15.04	
North "	3.80	
Rockdale "	3.80	$1509.77

From time to time, this committee has adopted rules with a view to perfecting ways that would facilitate and arrange the allotment of supplies to the several schools purchased

from the income of the Sylvia Ann Howland educational fund. But after all has been done, there still remains the task of formulating and putting in force a plan of broad embrace and systematic action. In other words, a plan which shall wisely interpret the needs of the schools, and which shall provide for a more equable and uniform distribution of aids purchased from this fund throughout the schools of the city.

Under existing methods, much inequality prevails. Some schools, whose teachers are on the alert, and have a zeal born of a desire to possess every facility that will give aid to instruction, get a bountiful supply of helps; while others, whose teachers are of a timid, shrinking nature, receive but a meagre allotment. This condition of affairs should be changed; not that positive harm has thus far resulted, but for the sake of equalizing advantages. The needs of the schools of the same grade are nearly if not quite identical: what is necessary for one is essential for another; therefore the dole should be alike to all. In order to remedy this inequality that now exists, it is quite important that concerted action on the part of all concerned — superintendent, teachers, and school committee — should obtain. Without this united action but little in the direction desired can be secured.

The bequest of the late Sylvia Ann Howland — by which the city has come into possession of $50,000, the income of which is for the use of our public schools — is broad and liberal in its intent, and any attempt to belittle its provisions, to restrict its field of usefulness by giving it a narrow interpretation, should meet with persistent and bitter opposition.

We believe and maintain that any influence or object that tends to facilitate the work of the schools; that seeks to subdue the passions, elevate, ennoble, and purify character; that creates a love of the beautiful; that inspires a love of country, and to which the general appropriations for school

purposes cannot be legally applied, is worthy of fosterage from the income of the Howland fund.

When the diversity and peculiar nature of some requests with which we have to deal are considered, it ought not to be a cause for carping criticism if any occasional slight error in judgment on the part of the committee should occur. To determine with unfailing accuracy just where to draw the line, just what to give and what not to give, would task the mind of a sage. That mistakes have been made we do not deny; to affirm otherwise would evidence a condition of mind fit only for the shades of oblivion. To cloak our errors we have no desire: humanity at its best is frail and weak; all we ask is that criticism, from whatever source it may come, may be made in a spirit of fairness.

The unanimity which the school board has always displayed in adopting the recommendations of its committee of the Howland fund, is highly gratifying. It leads us to believe that our labors from time to time have — to a certain extent, at least,—met with its confidence and approval, and for this we extend our grateful thanks.

For the Committee.

J. HOWLAND, Jr., Chairman.

DETAILED STATEMENT

OF THE OUTLAY BY THE SCHOOL COMMITTEE FROM THE INCOME OF THE SYLVIA ANN HOWLAND FUND, FROM JANUARY 1, 1888, TO JANUARY 1, 1889.

BOOKS AND PERIODICALS.

Ambrose, F. M.,	$44.00
Appleton, D. & Co.,	2.63
Balch Bros. & Graham,	42.00
Boston School Supply Co.,	15.00

Chase, W. I.,	$11.00	
Cowperthwait & Co.,	11.25	
Educational Publishing Co.,	24.75	
Ginn & Co.,	127.00	
Hutchinson, H. S. & Co.,	248.42	
Heath, D. C. & Co.,	13.50	
Hatch, Wm. E.,	10.00	
Kellogg, E. L. & Co.,	.75	
Lee and Shepard,	73.75	
Leach, Shewell & Sanborn,	4.34	
Martin, Garrison & Co.,	15.00	
Mason, Perry & Co.,	3.12	
Stockin, A. C.,	15.00	
Schoenhof, Carl,	14.83	
Small, Willard,	8.73	
Ticknor & Co.,	61.03	
Whiting, Chas. H.,	15.00	
Ware, Wm. & Co.,	12.00	$773.10

MUSIC DEPARTMENT.

Boden, E. Jr., organ and piano covers,	$89.60	
Ditson, Oliver & Co., singing books,	4.00	
Hume, Harrison, " "	16.10	
Lawton, J. M. Jr., piano cover,	12.00	
McFarlin, Jas., moving piano,	9.00	
Peirce, George, care of pianos and organs, &c.,	363.00	
Silver, Burdette & Co., singing books,	152.58	
Silver, Rogers & Co., music charts,	16.67	
Whiting, Chas. H., singing books,	73.13	736.18

APPARATUS.

Edison Electric Illuminating Co., electrical regulator,	$46.00	
Ritchie, E. S. & Co., apparatus,	40.87	86.87

BINDING.

Kane, D. J. & Bro.,	$70.75	70.75

PRIMARY DEPARTMENT.

Anthony, E. & Sons, reward cards,	$6.00
Boston School Supply Co., charts,	42.00
Edwards, A. M. & Co., language charts,	70.50
Hayes, N. P., scissors,	40.00

Haskins, E. P., object supplies,	$22.50	
Hutchinson, H. S. & Co., object supplies,	13.69	
Interstate Publishing Co., books,	7.71	
Prang Educational Co., charts and object supplies,	38.37	
Perry, George S., toys,	12.00	
Paine, S. S. & Bro., clay,	5.20	
Tripp, S. A., object supplies,	3.00	$260.97

MISCELLANEOUS.

Allen, George M., express,	$2.80	
Allen, Chas. R., "	.25	
Cyclostyle Co., ink and pens,	14.00	
Chase, J. Eastman, pictures,	6.00	
Carson, C. J. R., services on telescope,	5.00	
Doll & Richards, pictures,	76.50	
Dunton & Clark, "	6.40	
Eastern Educational Bureau, maps,	98.80	
Ellis, L. B., framing pictures,	15.25	
Gammons, Lottie M., covering books,	24.60	
Gray, Chas. A., freight and carting,	2.04	
Greeley, E. S. & Co., paste,	1.48	
Hutchinson, H. S. & Co., supplies,	31.30	
Holden Book Cover Co., book covers,	24.48	
Hatch & Co., express,	16.27	
Heath, D. C. & Co., outline maps,	3.25	
Haskell & Tripp, plush,	2.41	
Merrick, Emma J., covering books,	21.55	
Noyes, Cobb & Co., pictures,	13.50	
Perry, George S., paper,	46.20	
Sullings, Kingman & Co., supplies,	2.14	
Sweet, Kate, covering books,	11.45	
Tompkins, I. B., Jr., pictures,	9.00	435.67
Total,		$2363.54

TEXT BOOKS.

The amount appropriated for the purchase of books and supplies for the past year was $3500.

The adoption of additional text books, which was deemed for the best good of the schools, necessitated an expenditure much larger than was anticipated when the appropriation was made, so that the cost of books and supplies purchased during the year was $4528.88.

Bradbury Eaton's Elementary Arithmetic was placed in the eighth and ninth grades, "Practical Lessons in the Use of English," in two parts, by Mary F. Hyde, in each of the grammar grades, and Primers of Shakespeare and English Literature adopted for use in the first grade of the High school.

The cost of books and supplies furnished the several schools in detail is as follows:

COST OF TEXT BOOKS AND SUPPLIES FURNISHED THE SCHOOLS DURING THE YEAR 1888.

High school,	$537.38	
Fifth street grammar school,	683.54	
Middle " " "	551.78	
Parker " " "	636.16	
Thompson street grammar school,	228.58	
Acushnet avenue primary "	70.73	
Cedar street " "	45.79	
Cedar Grove street " "	28.34	
Dartmouth " " "	52.82	
Fourth " " "	43.52	
Grove " "	33.16	
Kempton street " "	47.12	
Linden " " "	35.04	
Merrimac " " "	33.87	
Maxfield " " "	28.09	
Thompson " " "	71.27	
William " " "	33.25	
Arnold " " "	6.81	
North mill "	17.91	
South " "	14.00	
Acushnet "	79.87	
Cannonville "	38.42	
Clark's point "	15.99	
North "	55.88	
Rockdale "	46.72	
Plainville "	45.73	
Cedar Grove street evening "	104.37	
Parker " " "	65.48	
Merrimac " " "	39.83	
Central " "	27.78	
Fifth " " "	116.26	
Evening drawing "	124.19	
Miscellaneous supplies,	271.82	$4231.50

STATEMENT.

Receipts:		
Annual appropriation,	$3500.00	
Special appropriation,	1028.88	
Stock on hand January 1st, 1888,	413.93	$4942.81
Payments:		
Cost of books and supplies during year,	$4231.50	
Stock on hand January 1st, 1889,	711.31	$4942.81

WILLIAM H. PITMAN,
Chairman.

HIGH SCHOOL—1888.

The past year has been one of gratifying prosperity in the school. The teachers have shown no abatement of the interest in their work noted in the last report, and the pupils have in the main responded satisfactorily to the efforts made in their behalf. The special system of teaching now in operation is certainly bearing good fruit, and the wisdom of the change from the old method becomes more and more apparent. The scholarship of the graduating class this year was decidedly in advance of that of any former class, and the quality of the original work in the graduating exercises was superior to that of preceding years. For this the teachers who have labored so zealously in and out of school hours deserve great praise. Meanwhile, the committee have been careful that there shall be no undue forcing of the pupils, and that the work in each department shall adjust itself to the requirements of the whole plan. In this direction their efforts have been promptly and judiciously seconded by the principal, Mr. Huling.

The whole number of pupils enrolled at the present time is 352, graded as follows: First grade, 59; second, 83; third, 88; fourth, 111; post graduates, 11. Compared with the statistics of the corresponding time of last year these figures

show a falling off of 12 in the total number. The loss, however, is confined to the *girls* of the third and fourth grades, particularly of the latter, and is due solely to the lesser number of pupils entering the school both last year and this. The first and second grades are larger than at any previous period in the history of the school.

While we deeply regret that more of the youth of our city do not avail themselves of the advantages offered by the school,—advantages so much greater than formerly, and now to be secured free of the burdensome expense of previous years, it is, nevertheless, very gratifying to see so many reaping the benefits of the full course.

During the summer vacation the museum of natural history, which occupied the room in the northeast corner of the basement, was removed to other parts of the building, and the space thus vacated fitted as a physical laboratory and a general scientific lecture and recitation room. Ample space has thus been secured for a class of twenty pupils in experimental work in physics, and the equipment of the room for such work, as well as for scientific lectures, is quite complete.

While the general methods and aims of the instruction remain the same as heretofore, these improved facilities have enabled us to make some beneficial changes and thus overcome some of the difficulties that have hampered the work in the past. Modifications have also been made in the experimental work so as to allow the use of simple, inexpensive apparatus, which can easily be multiplied into sets, and thus make it possible to adopt class instruction.

Among the new features introduced one of the most important is the Edison current of electricity, which, by an arrangement of cut-outs and switches, can be used by a number of pupils simultaneously. The uniformity of the current, its ready availability, the ease with which the sysem can be extended to meet increasing wants, and the

avoidance of the fumes and injury to clothing incident to the use of acid batteries and galvanic cells, are some of the advantages derived.

The thanks of this committee are certainly due to the chairman of the committee on expenditures, who has charge of the building, and to the Howland fund committee for the very satisfactory manner in which the wants of this department have been supplied.

The study of English, heretofore optional, is now required of all the pupils in the first class. As this change added materially to the already arduous duties of the special teacher in this department, Miss Mabel Washburn was appointed temporarily as an assistant, and entered upon her duties at the beginning of the present school year. The relief from some of the routine work thus given the regular teacher will result in great gain to the pupils of the first and second grades.

The new courses of study are now in full operation and working quite satisfactorily, except in one instance in the classical course, to which reference will be made further on.

I had occasion a year ago to criticize the system of drawing then in operation in the school, and to press upon the committee the great need of a well defined, progressive course of study to secure the best results. The subject was referred to the sub-committee having charge of the department, and has since received its earnest and careful consideration. It found the defects noted in the High school existing in the lower grades, and, therefore, wisely decided to revise the whole plan of work. A three years' course has already been prepared for the primary schools, and, after adoption by the full board, put in operation. The work is to be carried forward progressively through the higher grades, and we may confidently look for better general results in the near future.

Meanwhile the work in the High school has been modified to meet the requirements of the expected change.

In carrying forward the thought advanced last year, that nothing could be more appropriate for a report of this kind than a detailed statement of the actual work done in the several departments of the school, I propose now to take for this purpose the History, the Modern Languages (French and German), and the Ancient Languages (Latin and Greek).

Now, as then, I am indebted to Mr. Huling, the principal, and the special teachers for the very full reports upon these subjects furnished me, and from these I have gathered most of the material used.

HISTORY.

The study of history is given mainly to the first year. One teacher devotes her whole time to the subject, going from room to room. The text books in use are Swinton's Outline of the World's History, Barnes's History of Ancient Peoples, and Lancaster's History of England. The course covers the three periods into which history is usually divided, Ancient, confined, however, to the two countries, Greece and Rome, Mediæval, and Modern. The time given to the study is eighty minutes each day for four days of the week. These daily periods are divided into two equal parts, the first of which is devoted to teaching and the second to recitation.

The objects sought in the teaching are, first, to encourage independent thought; second, to arrange in compact and logical order all the facts so that the memory can easily retain them; third, to make each pupil see, underlying the dates, the words, and the acts, the purpose, spirit, or character; and fourth, if possible, to make the lesson personal.

To illustrate the method of teaching, let us take the definition of history given in the text book, that "it is the

narrative of the rise and progress of those famous peoples whose doings constitute the history of *civilization*."

Now, it is an easy matter to memorize these words and recite them readily, but that is not studying the subject. The pupils must first gain a clear idea of what constitutes civilization, know something of its aims and the steps taken to secure it, give the reasons for calling himself civilized.

Then the meaning of the words "the rise and progress of a famous people" must be made plain to him. To the student, fresh from the study of United States history in the grammar schools, this is done by suggesting a few dates and writing opposite them facts given by him. As, for example:

1620—Two colonies.

1731—Thirteen colonies.

1776—Declaration of Independence.

1787—Constitution adopted.

1832—Twenty-three states. One anti-slavery society of twelve members.

1863—Freedom of the slaves.

1888—Thirty-eight states: one of the world's greatest powers.

All the results of the thought of the pupil are catalogued before him and from these he makes the definition.

In studying the history of a country, the starting point is always a familiar one. The pupil is asked first to think of its geography. With an outline map before him, he observes the coast line, which suggests good harbors, fishers, sailors, merchants, colonizers, and civilizers. He locates the mountain ranges and rivers. The former he knows are rugged and steep, and would, therefore, be great barriers to intercourse among the people, and hence the little villages would naturally develop into independent towns, cities, states. Next he notices the latitude of the country and from this gives his idea of the productions. The con-

clusion is easily reached that, if nature produces much, man has more leisure to think how he may improve his condition.

From this study of the geography of the country, or of its natural advantages for early civilization, the pupil is taught to look at its history nearly as a whole, or as divided into great epochs. These epochs are then taken as separate lessons. We never dwell on such points as the minor details of battles, which form so large a part of history, but emphasize the motives that inspired the tribes or nations to fight, the characters developed in the struggle, and the principles that gained the supremacy.

The prescribed text books are frequently abandoned, as in early Greek history, in which parts of the Iliad and the Odyssey, in translation of course, are used instead.

Nearly every lesson is arranged topically and placed on the board before the pupils. Memorizing is not desired save in learning the synopses for review.

The recitation is conducted in various ways.

1—By rapid questioning on the part of the teacher, short answers only being required.

2—By selecting a few scholars to tell the story of the lesson in their own words.

3—By requiring the class to write the lesson from memory, aided sometimes by a topical outline or by questions.

4—By permitting pupils to ask original questions of others designated by the teacher. If the pupil called upon fails to respond, the questioner must be ready with an answer.

Map drawing is early insisted upon and the location of every important place mentioned in the lesson must be indicated.

As an aid to the study a very large collection of pictures has been gathered and is in constant use. These pictures, shown and explained by the teacher, give a more vivid

idea than mere words can convey. To further illustrate and deepen the interest in the subject, selections from good novels, describing more fully the events or customs outlined in the text books, are read to the classes once a week.

Thus, selections from the Last Days of Pompeii, Zenobia, Ben Hur, and Aurelian bring vividly before the mind of the pupils the manners and customs of the Romans; the Tournament of Ashby from Ivanhoe gives a clear idea of the age of chivalry; Elizabeth's reception at Kenilworth renders further description of a royal progress unnecessary; while Motley's Siege of Leyden, Draper's Overthrow of Constantinople, and stories from Froude and Green serve to create a desire for historical reading.

Students preparing for college, in their last year in the school are taken nearly through Smith's Smaller History of Greece and Leighton's History of Rome. By this means the outline obtained the first year is filled in, and the whole subject refreshed in their minds. Students preparing for the Institute of Technology also take a course in modern history, particularly of our own country.

THE MODERN LANGUAGES.

FRENCH AND GERMAN.

In the two years devoted to the study of French or German practical training rather than literary culture is regarded as the objective point. The instruction aims to secure,—first, a thorough knowledge of elementary grammar; second, the ability to understand the spoken language; third, a readiness of correct and idiomatic expression upon simple subjects; and fourth, the ability to translate into English and from English into French or German.

From the beginning the language taught is made the language of the class, and English is heard only in some difficult explanation. The ear of the pupil thus becomes

familiar with the new sounds and forms of construction, and he the more readily acquires the ability to understand connected discourse and to correctly express himself upon the simple topics of every day life and surroundings. A further cultivation of these faculties is secured by frequent exercise in writing from dictation.

Graded and systematic exercises in translation into the language studied, developing from the easy sentence, based upon given models, of the first year, into the more extended anecdote and original composition of the second year, are pursued throughout the entire course.

Since the strength and genius of every language lie in its idiom, the importance of rendering the idiomatic expressions by corresponding forms of idiomatic English is continually insisted upon, both in translation and in the reading at sight which is made a marked feature of the instruction. The study of synonyms enters largely into the work of the second year, and the grammatical text is supplemented by cyclostyled papers of adverbial and modal idioms, and of the most common prefixes and suffixes.

The literary value of the study is not overlooked, and from the outset the memorizing and recital of selections of French or German lyrics give variety, furnish a richer vocabulary, and deepen a taste for a knowledge of the literature of the language.

In the first twenty weeks of either course, three days each week are mainly devoted to the fundamental principles of the grammar, declension of nouns, conjugation of verbs, regular and auxiliary, and the writing of easy exercises, and one day to the recital of selections, followed later on by the reading of simple stories.

For the remaining period one day each week is assigned to the grammar, one to French or German composition, and two to translation into English. The completion of the amount of grammar text considered needful is followed by

the regular study of French idioms in the one course and Schiller's ballads in the other.

Those pupils who show no aptitude for the studies, and those whose work is uniformly poor, are required to drop out at the end of the first year.

THE ANCIENT LANGUAGES.

LATIN.

In the classical course this study is required for the whole four years, while in the general course it is an optional one, beginning with the second year and continuing for three years. Consequently there are, each September, two divisions of beginners: one in Class IV., made up by pupils whose parents aver that they are preparing for college; and another in Class III., comprising pupils having no such intention. The latter division is, on the average, a year older than the former. A similar duplication of divisions is found, of course, at the second and third annual stages of progress in the study. If these divisions should be small, they might be united in recitation in pairs, since they are approximately at the same point of advancement. Usually, however, in the school the numbers are such as to make it wiser to keep them separate. There are obvious advantages in the latter course, in view of the year's difference in maturity, when it is permitted by considerations of economy.

The aim of the first year's work in Latin is, to secure a thorough knowledge of the declensions and conjugations, to master the elementary principles of construction, and to build up an accurate but limited vocabulary. An attempt is made to impress upon the pupils the significance of the terminations of Latin words, and thus to counteract the tendency, so common among students, to find from a lexicon the root-meaning of a given word, and then guess at

its relation to the rest of the sentence. The main portion of the work is addressed to the eye of the pupil, but, in the belief that the Latin words should also be recognized by sound, translations without aid from books are regularly required of passages read by the teacher. In order more fully to test the knowledge of terminations and constructions, English sentences are turned into Latin by the pupils, then placed upon the backboard, corrected before the class and, in part, by the pupils, then copied into note books, and finally recited orally as a review. The Beginner's Latin Book, introduced two years ago, is found to be admirably adapted to our wants, and is the only text book used.

The success of the first year's work in Class IV. is not so great as is desirable. The reason is in part that the pupils are somewhat immature and find difficulty in persistent independent study, until after months of training. Another reason seems to be that too much is required by the classical course the first term of the first year, in view of the aptitude of pupils on entrance to the High school. They are now required to take, besides the course in Latin, all the Algebra, English, and History required in the general course. Some relief ought to be found before the entrance of another class.

The beginners in Latin of Class III. are much more successful in grasping the study. This seems to be due to the year's added maturity, to the gain in the habits of study acquired in the previous year, and somewhat also to the fact that the choice of Latin has been more intelligently made after a year's acquaintance with High school studies. There is abundant reason for belief that the postponement of the option of Latin from the first to the second year (except in the case of pupils preparing for college) was an act of wisdom.

The pupils of Class III., who are on the way to college, having had one year of Latin, in which they have covered

the main portions of elementary grammar, and learned how to translate sentences, finish and review the grammatical principles. The more difficult portions, as the uses of the subjunctive, are dwelt upon with considerable fulness, and minor points are introduced. For this purpose two lessons a week are given in the Beginner's Latin Book, each lesson involving drill in grammar and practice in translation and re-translation. On alternate days, with this elementary work the pupils are slowly introduced to continuous translation by assigned lessons and sight readings in the second book of Cæsar. A steady growth in power is discernible. After the first term the grammatical work occupies but one lesson, and the Cæsar is given three. In subsequent years it is expected that the year may be begun in this latter way, and that four books of Cæsar may be read during the school year. The amount will be somewhat less this year, although the pupils are working earnestly, and in the main successfully.

In Class II., also, there is a division which began the study a little more than a year ago, and which is studying Cæsar under much the same circumstances as the portion of Class III. just mentioned. With these has been combined a division of the same class which has studied Latin a year longer, but to which the portion of Cæsar now to be read is new. The union has worked well, furnishing a little relief to the more advanced division and lending those less prepared an increase of inspiration. With these scholars of Class II. there is a weekly drill on grammatical points, with sentence writing in both Latin and English, and three lessons each week in Cæsar.

In both classes in Cæsar the chief difficulty met is the eagerness of the pupils to hasten to the meaning of the sentence without due attention to the force of terminations and to the main rules of concord. Patient attention to details of difference is secured only by the utmost care and constant

iteration. In a few cases there is an utter failure to improve in ability to transfer thought from one language to the other; further progress in these cases seems almost hopeless, and these pupils are not permitted to continue the study beyond the end of the year.

There is a brighter prospect than for some years that the school will soon accomplish what is usual in other high schools of the same grade: the completion of the reading of Cæsar during the second year, and the devotion of the third year to Virgil. Improved methods and text books contribute to this result, as also does the added maturity at the commencement of the study.

The present Virgil class began Latin under the old plan, and is a part of Class I. Its work is mainly translation, as the pupils have already acquired a working knowledge of the forms and inflections. They have read the first six books of the Æneid, advancing at the last about fifty lines a day. Fluency in translation and precision in the use of words are the objects especially sought, together with incidental knowledge of Roman literature, mythology, and history.

The college division in Class I. will ordinarily study Cicero, Ovid, if needed, and advanced Latin composition. For the present year this work is omitted, as those in the classical course are intending to take a fifth year for preparation, in which this additional Latin and certain other studies will be pursued.

GREEK.

The text books used during the first year in Greek are Goodwin's Grammar and White's First Lessons. The objects to be secured are the same as in the first year of Latin, namely, to build up a vocabulary, and to acquire familiarity with the inflections and the elements of syntax. This first year in Greek requires close application to detail

and accuracy of memory : qualities that presuppose previous training and study. The one year of Latin that precedes is an admirable preparation for Greek in these respects.

The First Lessons in Greek is a far more difficult book than the Beginner's Latin Book, but the method pursued is precisely similar to that employed the first year in Latin, and leads up to the reading of continuous prose — the Anabasis — at the end of the year. Coming as a fourth study, with English, Geometry, and Latin, the lessons in Greek cannot be made very long, but as the division is usually small each pupil gets individual attention from the teacher to a greater degree than in most subjects.

The second year in the study is spent in reviewing the principles of grammar already acquired, in increasing the pupils' acquaintance with the more complex forms and intricate constructions, and in translation of Xenophon's Anabasis, with sentence writing in both languages. As no students began Greek last year we have no class at present on the second year's work.

In the third year, whatever remains of the first four books of Xenophon is completed and reviewed, and three books of Homer's Iliad are read, together with work in Greek prose composition. Sight reading is made prominent, and, incidentally, the fine distinctions of Greek construction are made the intellectual possession of the pupil. He is also led to some general acquaintance with Greek manners and customs.

We have now in this and the next preceding report given, as concisely as possible, a detailed statement of most of the work of the school. The only studies remaining are the physiology and book keeping of the second year, the astronomy and civil government of the fourth year, and the singing, which is continued weekly throughout the entire course. Of the latter I can say, in passing, that the work of the special teacher in the school is thoroughly good.

Little comment on the methods employed has been made, because the use of them should seem to be sufficient indication of the fact that we deem them, in the main, wise and productive of good results. But, while we may with propriety congratulate ourselves upon the success achieved in the past, and confidently invite the attention of our citizens to the advantages proffered by the courses of study as they now stand, we are not unmindful of the fact that they are susceptible of improvement, and that it is our duty to make such judicious changes as our own experience and that of others may from time to time suggest.

Committees and teachers, however, will labor in vain for the greatest success of the school unless they have the support and coöperation of the parents of the pupils. Such assistance is essential to healthy growth, and should not be denied.

For this reason we deem it proper, in conclusion, to call attention to a department of our school which is not receiving from the public the consideration it deserves.

It is to be regretted that so few of our pupils enter college or the technical school after completing the work here. Indeed, the number of students in advanced institutions from our city, whether prepared in this or some other school, is ridiculously small in view of the numbers, wealth, and general intelligence of our population. This is due in part, undoubtedly, to the presence of the Swain Free School, with its admirable facilities for higher education in several directions. But the service of that school, valuable as it is, is not intended to be an equivalent for a complete course in college. But by far too few, even of our High school graduates, are enrolled upon its list of students.

There is reason to fear that many of our young people are selling their intellectual birthright for a mess of pottage. Whether with or without the consent of their parents, they are so intensely absorbed in passing amusements and social

diversions, that they are letting slip the opportunities for broad education and the highest culture. It requires no little moral courage in these days to stem the popular tide, and practice the self denial requisite to secure a thorough collegiate training. It is high time for a reaction to set in in this respect.

For the Committee.

JOHN ELDRIDGE, Jr., Chairman.

GRAMMAR SCHOOLS.

The sub-committee on grammar schools, in their Report of last year, called attention to several matters which seemed to them to demand consideration, if the best interests of these schools were to be subserved. We report with pleasure that two of the suggestions made have been adopted by the board.

One of these was the need of a uniform series of text books, which should form the basis for teaching Language throughout the schools. After mature consideration, a series was decided upon, which met with the approval of the board, and is now in use in all the grades. The good results of the change are already apparent. While the teachers do not confine their work to the text of the book, all have now a common working ground. The text book has its proper function in the school room; while the earnest and thoughtful teacher is never its slave, by a judicious use of it his labors are lightened, and he finds it suggestive and helpful in many respects. The instruction in language has been for some time chiefly oral in all the grades. This plan of teaching the subject may produce satisfactory results, if pupils are to take their whole course under the guidance of one person who has a well defined plan for presenting it; but when these same pupils are to

be taught by a number of different persons, as is the case in modern school systems, and each of these is working on plans of his own, the knowledge acquired by them is apt to be confusing and of little definite value. We welcome the change which has been made, and trust that it may prove a permanent benefit. A suggestion was made also in reference to the Arithmetic of the two lower grades. A simpler text book was recommended, and Bradbury Eaton's Elementary was mentioned as a suitable one. This recommendation also met with the approval of the board, and it was placed in the Eighth and Ninth grades. This book is well adapted to the capacity of the pupils in those grades, containing a large variety of practical concrete problems, and is found by the teachers to be much more helpful than the higher book of the same series which was formerly used.

The schools have suffered but little from interruption during the year. The Parker street school was closed for two weeks in the spring to admit of some changes in the drainage system, which was thought at that time to be somewhat imperfect. A few resignations of teachers have occurred, and the vacancies have been filled by transfers, and promotions from the primary corps. Mr. George Rugg, principal of the Thompson street school, was among those who resigned, having accepted a position in a high school elsewhere. Miss Kate N. Lapham was appointed to the position, and the school is making commendable progress under her administration.

In reviewing the work of the schools for the year, the committee feel that on the whole it has been successful. The teachers are earnest in their efforts, and for the most part progressive in their ideas, and all are ready to avail themselves of such helps as will broaden the scope of their instruction, or make their labors most effective. A new manual is one of the pressing needs; the old one is

virtually discarded, and the teachers, not knowing just what is desired to be accomplished during each year, labor frequently at cross purposes. The methods of discipline employed are in general such as to commend themselves to the committee. Few cases of insubordination have been reported, and good order has been the rule, rather than the exception. We deprecate, however, the frequent resort to corporal punishment which has been deemed necessary, and hope that some milder but equally effective means of government may be discovered. It has been but a few years since corporal punishment was of common occurrence in high schools; now it is an almost unheard of event. In the meanwhile, the tone of those schools has risen immeasurably.

F. A. WASHBURN, Chairman.

PRIMARY SCHOOLS.

The average number of scholars belonging in this department of our schools during the Fall term just completed was 2058, with an average daily attendance of 1942, and required the services of 56 teachers.

As compared with the corresponding term for 1887 this is a gain of 220 in the number belonging and of 241 in attendance, the number of teachers being the same.

The condition of the schools, as a whole, is quite satisfactory, although there are some exceptions where the standing is not what we desire, and where an improvement is evidently demanded. These exceptions have been receiving and will still continue to receive the careful attention of the superintendent and of your committee.

Unless one is quite familiar with this particular branch of our schools, no adequate conception can be had of the difficulties which are constantly occurring, and which must be

met with and overcome in order to make them what the parents and the public at large expect, and what the committee desire them to be — models in the system of public schools.

Among the many hindrances and obstacles which we meet with in striving for the desired result, permit me to refer to two special reasons, which, in my opinion, tend to retard the success that would otherwise attend earnest and faithful labors of our primary teachers.

The first of these is a want of uniformity in the method of teaching; in other words, we need a manual of instruction, revised and brought down to the present age. I am fully aware that objection will always be made by some, — and I do not question their sincerity nor their wisdom, — who claim that a teacher should not be bound down to "set rules" and "regulations," that they should be left free to teach in their own way, &c., &c. While I agree with such people, in a general way, and am quite willing to concede all necessary freedom to the teacher, would have them untrammeled so far as consistent, and, above all, do not desire that any teacher should lose his individuality in the school room, still I am of the firm opinion that it would result in great efficiency to the entire department had we a good manual, — by the aid of which, the teachers, while not being driven into ruts, could yet be governed in their method of teaching.

As our schools are graded, it is essential, and it was intended, that the same grades in the different schools should each pursue, as nearly as possible, the same course of lessons, and adopt practically the same system in teaching them. Formerly this was the plan, no doubt, but in my visits to the different schools, there seems now to be a lack of this uniformity.

The reason for this I attribute to the fact that the old manual being nearly or quite extinct, and many of our

present corps of teachers being comparatively new to the service, they are led, very naturally, to imitate and adopt in a great degree the methods and manners of the particular school where they have spent their time in observing.

It is apparent to my mind that this difficulty would be remedied by the use of a manual, without detracting either from the freedom or individuality of the teacher.

I trust the Superintendent will soon prepare, and that the Board will adopt a manual for use in our schools.

Another hindrance, and one which has nearly become chronic, is the crowded condition of some of our schools. Especially is this true of those in the southern portion of the city. This difficulty does not arise so much from the lack of school houses as from the fact that the buildings are so situated it is impossible to utilize the houses we have,—the demand for rooms being in an entirely different section of the city from the school houses.

The Acushnet avenue, Thompson street, Dartmouth street, and Grove schools are all full to overflowing. In the latter school we have been compelled to resort to the "half time system" in the Thirteenth grade for more than a year past, in consequence of our inability to find suitable accommodation in that vicinity for the children.

Such is the condition now. What will it be when the new mills recently completed, now approaching completion, and those in contemplation, are in full operation?

In the last annual report upon the primary schools, reference was made to the need of another school house in the southern part of the city, and I would again urge upon the Board the necessity of immediate action looking towards the erection of a building to be used exclusively for the primary department in that section.

During the coming year, the new Harrington school house will be completed and ready for occupancy. This will furnish ample accommodation for that district for several years

to come and prove a valuable addition to our public school buildings, as well as a deserved memorial to our late Superintendent.

When this building is finished I trust the Board will lose no time in transferring the pupils from the "underground quarters" on Arnold street to what will appear to them in comparison as the "Palace on the Hill."

I am glad to know that the Superintendent, as well as some members of the committee, are very favorably inclined towards the establishment of a training or practice school. I am of the opinion that such a school, under the direction and charge of a competent principal, would be of great benefit to our primary schools, and through them to all the schools.

It is well known to the committee that as we are now situated, we are compelled by the force of circumstances to place in our schools assistants whose only experience in teaching is the few weeks spent as observers. Had we a training school, the pupils therein could at any time be appointed as substitutes in cases of temporary vacancies, which from various causes are constantly occurring, and great advantage would accrue in having a substitute more or less trained in school ways and discipline, rather than one who has at best a very limited knowledge thereof. These schools are a success in other cities, and I hope we shall soon have one in operation in our own city. The establishment of such a school would be a great factor in removing the difficulty first alluded to in this report. It has been suggested that a portion of the Harrington school house might be utilized for the purposes of a training school until the room is needed for other classes.

In closing I desire to express my appreciation and hearty approval at the interest manifested by the Superintendent in the primary schools, and also to acknowledge his labors in their behalf,—the result of which, I anticipate, will be to

show a great advancement in this grade during the year to come.

Respectfully submitted.

I. W. BENJAMIN, Chairman.

EVENING SCHOOLS.

There is a steadily increasing need for careful thought to rightly provide for the needs of this branch of our school system. The rapidly increasing population of our city, and the requirements of the law in regard to so-called illiterates, have called for an increase of accommodation. To accomplish this, it has been necessary to utilize a portion of two more of the school buildings. The use of the school buildings for evening school purposes meets with some reasonable opposition. That it would be to the advantage of all concerned to have provided accommodation for the evening schools, independent of any building used for day school purposes, is a fact to which I would ask earnest consideration. The committee have endeavored to provide teachers for these schools without drawing from the corps of teachers employed in the day schools, and with few exceptions have succeeded in so doing.

It is but justice to say that the teachers have shown an earnest and commendable zeal in their work and the schools continue to maintain the excellent standard of the past years.

In regard to those attending the schools, it is a pleasure to say that, as a class, they evince a purpose to acquire knowledge, and in appearance are a credit to themselves.

The number of pupils enrolled is 1420. Average attendance about eight hundred. Number of teachers 41.

For Evening School Committee.

GEO. WM. HILLMAN.

SEWING.

From the first lesson given in sewing, through the entire course, it has been the aim of those having this department in charge to make each lesson thoroughly practical. No time has been spent over scraps of cloth which could serve no useful purpose when finished; but the pupils have been required to give their time and thoughts to the finishing of some serviceable article, however simple it might be.

In furtherance of this plan we have generally had the hearty coöperation of the parents; and the teachers are expected to supply those girls with work who are without, either from their own carelessness or the neglect of friends at home.

We have refused to allow patch-work in the sewing lesson, because the little rags, torn at random and illy fitted, serve no valuable purpose, are not convertible into anything, and because, if mothers wish their daughters to sew on patch-work, it can be easily done at home.

We have also excluded fancy-work from the schools, because we do not think it serves the purpose for which sewing was introduced; and also because we have observed that girls are willing to outline and embroider, when they would regard themselves as martyrs if requested to mend a rent or darn a stocking.

It is an easy thing to interest girls in any kind of fancy needle-work, but to conduct them happily along through an hour of work on some uninteresting piece of plain sewing requires all the skill, patience, and tact of the very best teachers.

We have to congratulate ourselves that this branch of our school work has been constantly under the care of persons of long experience in the art of sewing, and that they have so happy and successful a method of instructing others in it.

The first work of the child, after being taught to thread her needle with a suitable length of cotton, is to make a sewing apron. The material is of whatever style of print the mother may select, and is so fitted that there are no long seams to discourage the beginner. This apron costs, when completed, about six cents, and is worn by the maker during the sewing lesson.

At the close of the exercise, the unfinished work, with its appliances, is folded in the apron, tied up with its string, and marked with the owner's name. These packages are placed in a basket kept for the purpose, and so arranged that the work of distribution and collection is accomplished in a very short time.

By degrees the pupils are carried through the simple varieties of plain sewing, and as they evince proficiency are advanced to the more difficult stages of mending and darning; last of all they are taught by the most patient painstaking to make button-holes.

During the year just past, the girls of our schools have completed 2800 articles; have darned 2780 pieces, consisting of stockings, mittens, and leggins; and the more advanced pupils have made 200 button-holes.

We wish to repeat our recommendation of last year, which is, that the course of instruction be carried into the higher grades, and the pupils be taught to cut and fit work in a skillful manner.

This could be accomplished by expending a small sum for cutting tables and other apparatus, and employing the two teachers, now on half time, for the entire year.

Respectfully submitted.

BETSEY B. WINSLOW, Chairman.

THE COUNTRY SCHOOLS.

These institutions have been regarded in the past somewhat in the light of an appendix to, or rather a detachment of, the educational system represented by the public schools of the city. They have borne about the same relation to them as the Apocrypha bears to the Bible — a portion of doubtful inspiration of which the school committeeman, even, had a right to be skeptical. Although classes have graduated from these schools yearly, going into the High school by the same "open sesame" through whose magic the city classes have obtained entrance, yet somehow there still lingered a doubt, born perhaps of the dimness of distance and the absence of personal observation. Hence the discrimination heretofore existing in regard to diplomas. During the last two or three years the Country School Committee have endeavored to call the attention of the Board to facts which have so long existed. Tardy recognition has been granted; and now when our enterprising Superintendent proposes to see to it that the same course and conditions of study be maintained here, as elsewhere, lo! the country schools have marched into line. Diplomas are granted, a special teacher in drawing provided, and there is a looking forward to a speedy requirement of an advanced musical education on the part of the teachers, if not to the time when the professional himself shall take notes in the country schools.

There have been many changes in the corps of teachers during the past year. The North and Cannonville schools alone have kept "the even tenor of their ways." Their report of this year differs little from the report of last.

The Rockdale school is now in charge of Susan C. Graffam, who filled the vacancy caused by the resignation of Mrs. Lillian Thomas during the last term of the school year. She has been elected for the ensuing year, Miss

Tripp, who was granted two years' leave of absence, having resigned on account of continued ill health. Notwithstanding the disadvantages necessarily attending these changes, the school seems to be in good condition, under the combined efforts of Miss Graffam and her assistant, Miss Alice P. Terry.

Miss Ruth A. Allen, principal of the Plainville school, sent in her resignation to the Board, and Miss Mary Chase was appointed in her stead. It has been difficult to provide an acceptable teacher for this district heretofore, but we trust Miss Chase will be more fortunate than her predecessors in giving satisfaction. She certainly brings to her work experience, energy, and apparent interest.

Miss Selene E. Sherman, assistant in the Acushnet school, resigned during the last term, after years of good service. Miss Ashley is supplying her place. This important school is unfortunate in its school building. The house—antedating, so far as I know, the recollection of "the oldest inhabitant"—is old, cold, unsanitary, and inconvenient. The Country School Committee called attention to the need of a new school house in this district, in its annual report of last year. During the present year it has instructed its chairman to bring this matter before the Board in response to a motion, made by Mr. Mathews, to refer back to the several sub-committees the recommendations contained in their annual reports for further consideration.

Waiting for the High and Grammar School Sub-Committees to take precedence, the chairman has neglected to comply with the instructions of her committee but would make reparation by again voicing their urgent wishes in the annual report of this year.

In consideration of the fact that the school at Clark's point had so few scholars, the average attendance so exceedingly small, the cost of instruction per scholar so heavy, being $44.68, exceeding by $21.62 that of any

other country school, and being $4.96 more than that of a scholar in the High school: in consideration also of the frequent trespass committed by breaking in and pilfering at the school house, also of the great difficulty of securing a suitable janitor, it was proposed to the Board as the best judgment of the Country School Committee that this school be closed and conveyance furnished by the School Committee for the pupils to schools in the city. The Board referred the matter back to the sub-committee with instructions to ascertain if a suitable conveyance could be obtained, and at what expense, and report. This was done to the effect that suitable transit could be procured at the rate of two dollars a day for each school day. At the same meeting there was presented a petition from the residents of this district to reopen the school. Their prayer was granted, and the school is now in progress.

The same conditions, which, in the opinion of the Country School Committee, rendered it practical to close the school at that time and transfer its pupils to another, exist today, and they have the same recommendation to make in this report as was made to the Board last July.

For the Country School Committee.

ELIZABETH W. STANTON.

DRAWING.

The course of instruction in drawing in the day schools and also in the evening school has been much modified during the last year. The details of this change may be found in the report of the Superintendent.

While we must wait to see the benefits of this change in the day schools, we are happy to state that already its results are seen in the increased attendance and interest in the evening drawing school. Mr. Arthur J. Cumming, the

SCHOOL BOARD—1889.

WALTER CLIFFORD, Mayor, Chairman, *ex-officio*.

ISAAC W. BENJAMIN, Vice Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.

Office, 133 William street.

Office hours, 8½ to 9 a. m., 12½ to 1 p. m. Saturdays, 9 to 9½ a. m.

WILLIAM A. TUCKER, President of Common Council, *ex-officio*.

Regular meetings of the board, first Monday of each month, at 7.30 p. m.

WARD ONE.

Name.	*Place of Business.*	*Residence.*
JOHN H. LOWE,	925 Acushnet avenue,	931 Acushnet avenue.
GEORGE W. HILLMAN,	Wamsutta Mills,	772 County street.
ANNIE R. BORDEN,		Ashland, cor. Austin st.

WARD TWO.

ISAAC B. TOMPKINS, JR.,	78 Union street,	59 Sycamore street.
ELMORE P. HASKINS,	11 Hillman street,	95 Chestnut street.
STEPHEN H. SHEPHERD,	Standard Office,	24 Sycamore street.

WARD THREE.

HELEN W. WEBSTER,	Cor. Mill and Purchase sts.,	Cor. Mill and Purchase sts.
WILLIAM H. PITMAN,	Institution for Savings,	60 Chestnut street.
ISAAC W. BENJAMIN,	N. B. Cordage Co's Office,	50 Hill street.

WARD FOUR.

WILLIAM H. MATHEWS,	N. B. Copper Co's Office,	147 William street.
JOHN ELDRIDGE, JR.,	N. B. Cordage Works,	12 Morgan street.
GEORGE H. DUNBAR,		179 William street.

WARD FIVE.

JONATHAN HOWLAND, JR.,		54 Russell street.
FREDC. A. WASHBURN,	Institution for Savings,	10 Maple street.
CHARLES T. BONNEY,	42 North Water street,	95 Orchard street.

WARD SIX.

BETSEY B. WINSLOW,		315 County street.
FRANK M. KENNEDY,	Folsom Block, Purchase st.,	139 Acushnet avenue.
FRANK H. GIFFORD,	27 William street,	271 County street.

EMMA M. ALMY, Superintendent's Clerk.

GEORGE K. DAMMON, Assistant Truant Officer.

Office hours, 8½ to 9 a. m., 12 to 1 p. m. Saturdays, 9 to 9½ a. m.

STANDING COMMITTEES.

WM. E. HATCH, Secretary.

ON HIGH SCHOOL—Eldridge, Washburn, Bonney, Howland, Dunbar, Benjamin, Mathews, Miss Winslow.

ON GRAMMAR SCHOOLS—Tompkins, Washburn, Pitman, Mrs. Webster, Haskins, Mrs. Borden, Shepherd, Howland.

ON PRIMARY SCHOOLS—Benjamin, Miss Winslow, Pitman, Shepherd, Tompkins, Mrs. Borden, Dunbar.

ON COUNTRY SCHOOLS—Haskins, Hillman, Mrs. Webster, Gifford, Kennedy, Lowe.

ON FARM SCHOOL—Kennedy, Bonney, Washburn, Haskins, Gifford, Hillman.

ON MILL SCHOOLS—Mrs. Borden, Tompkins, Howland, Shepherd, Hillman, Mrs. Webster, Lowe.

ON EVENING SCHOOLS—Hillman, Pitman, Mrs. Borden, Haskins, Gifford, Kennedy, Lowe.

ON MUSIC—Shepherd, Mathews, Pitman.

ON DRAWING—Mrs. Webster, Eldridge, Miss Winslow, Bonney, Dunbar, Howland, Lowe.

ON SEWING—Miss Winslow, Washburn, Benjamin, Shepherd, Mrs. Webster, Mrs. Borden.

ON EXAMINATION OF TEACHERS—Eldridge, Dunbar, Tompkins, Benjamin, Haskins, Mrs. Borden, Hillman, Shepherd, Miss Winslow.

ON TEXT BOOKS—Pitman, Gifford, Washburn, Mathews, Hillman, Mrs. Borden, Kennedy.

ON EXPENDITURES—Mathews, Benjamin, Dunbar, Howland, Pitman, Tompkins, Eldridge, Gifford, Tucker.

ON HOWLAND FUND—Howland, Benjamin, Mathews, Bonney, Eldridge, Tompkins, Dunbar, Tucker.

ON PAY ROLLS—Dunbar, Mathews, Tompkins.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

FOR THE YEAR 1888.

SUPERINTENDENT'S REPORT.

Ladies and Gentlemen of the School Committee:

A year has scarcely elapsed since I was chosen by you to the position of Superintendent of Schools in this city. My honored predecessor had filled the position so long, and with such rare ability, that I accepted the trust with no slight misgivings as to the future, and with a deep sense of the responsibilities of the office. But I have received at your hands such hearty aid and coöperation in my work, and withal such courteous treatment personally, that I feel no longer a stranger among you, but as an associate of years. I have come to know in each one of you a friend of the public schools, devoting your time and thought with rare unselfishness to the great trust reposed in you by your fellow-citizens. I wish thus publicly to express to you my thanks for the generous assistance received at your hands in performing the duties of my office during the past year, and my satisfaction in being associated with a Board on whom I can so fully rely for counsel and aid in advancing the welfare of the schools.

You will find that my Report will differ much in character from those to which you have been accustomed. While the annual report of the Superintendent of Schools is ostensibly made to the School Committee, I hold to the opinion that it should be the medium by which information is imparted to the general public of the condition, the aims, the work, and the needs of the schools. These can only

secure and maintain their highest realization when the people at large are keenly alive to their great importance, and accord them most hearty support. It may appear like presumption on my part to hint even indefinitely at any danger that may arise to the public schools in a city like ours, where the support has always been most loyal and generous toward them; but the fact must be apparent to any thoughtful observer that the common schools of this country, while more prosperous and efficient today than at any period of their history, are also menaced as never before. Their friends cannot be too watchful of their interests, and should strive to make them so thorough, so closely bound to the hearts of the people, that they shall be able to withstand any attacks, whatsoever their source.

THE CENSUS.

The laws of the state require that the school census shall be taken each year, in May. I found on taking charge of the schools that no such census had been taken since 1883. The attention of the committee was directed to the law, and my request that the census be taken was willingly granted. There was some delay in beginning the work, and it was not completed until late in the summer. The city was divided into four districts; a different person was appointed to take each district, and a most careful and thorough canvass was made of all children between the ages of five and fifteen years of age then residents of the city. The results showed a gain in the number of the children between those ages of 1077. The greatest gain was in wards one and six. Appearances indicate that the latter ward will be the one in which the chief increase of population will occur during the near future, and from here will come the demand for new school buildings. Comparing the census with the number of pupils

between the ages of five and fifteen enrolled in the schools of the city, including both public and private, the very gratifying fact is shown that there are few if any children in the city of school age who have not had the benefit of some instruction during the year; and were it not for the illiterate persons who are added to our population each year, there would soon cease to be any minors in our midst who could not read and write intelligently in the English language.

EXPENDITURES.

Reference to the report made by the Committee on Expenditures will show that the sum expended on the schools during the past year exceeds that of any previous year. It may be of interest to ascertain the causes of this increase, since the enrollment in the day schools shows but little variation from the enrollment in 1885, when the expense of the department was much less.

During the four years past, the schools have been subjected to many changes. These were due to three causes: First, the withdrawal during that time of about fifteen hundred children into the parochial schools; second, the large influx of children due to the growth of the city; third, the statute requiring the attendance of illiterate minors in the evening schools. The withdrawal of a large number of pupils into the parochial schools would have reduced the expenses materially, had the population not increased rapidly at the same time. It would have allowed a permanent readjustment of classes, and the services of many of the teachers could have been dispensed with. But the rapid growth of the city from immigration prevented this. Or, had the new comers settled in those quarters of the city where the pupils had been withdrawn in the greatest numbers, expense might have been saved. But such was not

the case. While the schools in the north part of the city were much reduced in numbers to a teacher, thereby increasing the relative cost, those in the west and south parts of the city were becoming crowded, requiring the aid of extra teachers. Such has been the growth in the population during the past three years that there are as many pupils in the public schools today as before any were withdrawn. Had any changes been made in the teaching force during that time, the efficiency of the schools must have suffered, and the slight saving that could have been made by temporary changes would not have been sound policy. But the chief source of increase in the expense is the radical growth of the evening schools. A few years ago the cost of this branch of the department was a *nominal* sum. For the year 1888, this cost, including the drawing school, has been $7678.60. This sum includes fitting the additional rooms opened, as well as the general running expenses. Enough has been shown already, I think, to give one not familiar with the workings of the department a fair conception of the causes that have operated to increase its expenditures during the past few years.

The city is still growing rapidly and the cost of this department must necessarily continue to increase also, if even the present state of efficiency is preserved. Good as the schools are, no efforts should be spared to make them still better. The salaries paid the teachers are not large. The demand for more thorough preparation on their part will cause larger salaries to be paid in the future, rather than smaller. Additional and better school accommodations are wanted. But I doubt not that the new issues which arise will be provided for with the same progressive and liberal spirit that has characterized the provisions made for the schools in the past.

principal of this school, has, as in former years, the pupils in free hand drawing. Mr. Albert Drake has charge of the class in geometry. Mr. George Stetson has been employed as instructor in mechanical drawing.

Number of pupils enrolled at end of year 1888, 75.

Average attendance, 55½.

The engagement of Miss Fanny Ashley last year as assistant teacher of drawing in the North school, proved to be so advantageous that it was decided to employ her in that capacity in all the country schools, thus giving them more instruction and leaving more time to Mr. Cumming to devote to the teaching of the advanced classes.

Respectfully submitted.

HELEN W. WEBSTER,
For Committee on Drawing.

MILL SCHOOLS.

There are not many changes to note in this department, and but few recommendations to make.

The work is uniform, and the teachers are given absolute control, acting as their best judgment dictates, always adapting their labor to the needs of the pupil, and giving such instruction as shall be thoroughly practical and best fit them to become good citizens.

The law relating to "child labor" has undergone many changes during the past year, and more stringent regulations have been adopted. It places the age when children can enter the mills at thirteen years, instead of twelve. They must attend school twenty weeks between the ages of thirteen and fourteen. A permit of a prescribed form must be given until the person is sixteen years old. This permit not only contains the oath of the parent or guardian

as to age, but includes the statement of the Superintendent of Schools as to attendance at school, and the ability to read and write in the English language. The issuing of these certificates required the employment of a person to attend to that special work for several months.

That these matters have been faithfully attended to by our Superintendent is attested by the commendation of the state inspector in a recent visit to our manufacturing establishments.

The number in the North school having been somewhat reduced, it was not deemed necessary to fill the vacancy caused by the resignation of Miss Underwood, which occurred in September.

Miss Underwood has done excellent work, and in her retirement from the service carries the kind wishes of this committee.

Some objections have been made to the name "Mill" schools, and in view of the necessity for ungraded schools which almost daily presents itself, the term "Ungraded" might be substituted, and transfers to that department could be made without raising the question of class or distinction.

It is frequently found difficult, on account of disparity in age, to properly classify many applicants for admission to our schools. These children could be sent to the "ungraded" school until such time as they were fitted for the grade where they properly belong.

Your committee are unanimous in the opinion as to the necessity and importance of these schools, and the developments of each year serve to strengthen that opinion.

For the Committee.

ISAAC B. TOMPKINS, Jr.,
Chairman.

MUSIC.

There is but little to report in this department beyond the fact that its interests are well cared for by Mr. F. L. Diman, the efficient and faithful instructor. The results reached, so far as the Committee have knowledge, are satisfactory, and, in its opinion, will compare favorably with those of most of the schools in the Commonwealth outside of Boston.

Mr. Diman, in his plan for work, is not confined exclusively to schedule time, but puts in his work and devotes his time where he thinks they are most needed, although he continues his regular visits to all the grades at the proper time, with perhaps a very few exceptions. His visits to the primary grades have been productive of marked improvement, and much interest is manifested by the little people in their music, and they are always delighted when the day arrives for their music lesson.

Some special work is at times absolutely necessary, because of the fact that a number of the grades are so large that one and sometimes two rooms will not accommodate the entire class; and as the pupils are placed in separate rooms, and the regular teachers are not all equally competent to teach this branch of the work successfully, one portion of the class will receive more thorough instruction than the other, and consequently it is not equally advanced in its work. To remedy this evil the music teacher devotes a little more time to that portion of the class deficient and backward in its work, deducting the time for this work from those classes where it can best be spared, where it will work the least detriment; and by so doing the hoped-for results are at least partially reached, and the portion of the class deficient in its work is brought more on a par with the more fortunate ones.

So marked has been the improvement in the work ac-

complished by the primary grades since the instructor has made stated visits to each room, that it has been remarked by those fully competent to judge that by the time the pupils change from primary to grammar scholars they are farther advanced in their music than the grammar scholars in the eighth grade under the old regime.

As an evidence of the success of this branch of school work in the high and grammar grades, and of the efficiency and faithfulness with which music is taught in our schools, we have but to refer to the very creditable exhibition given at the High school a few weeks since, upon the closing day of the Fall term, and upon other occasions where the pupils of these grades have been engaged, to convince the most sceptical that it pays to teach music in our public schools.

Much credit is due the regular teachers, in general, in the results reached, for the able coöperation they have rendered, and for the readiness they have manifested in carrying out the plan of work and following the instructions of the special teacher. The time allotted them for this work is limited, and a faithful performance of their duties in this particular has accomplished satisfactory results.

There are no recommendations to offer or plans to change. Everything connected with the department seems to be working well, and all interested, committee, teachers, and scholars, seem to be satisfied with the system, the plan of operation, and the results reached.

S. H. SHEPHERD, Chairman.

TRUANT SCHOOL.

The legal power conferred on the School Committee in regard to this school consists in the appointing of a teacher, and the fixing of his or her salary.

Miss Nellie Chase was elected the teacher last June and has served without interruption since. The August vacation was omitted as in the previous year. At present, there is little hope for improvement for those gathered there, amidst such surroundings as the Farm school presents. Those who feel a sympathy for this class desire strongly more and better facilities for their care. The committee deem it the best way, and the least expensive, to unite with the towns that have already petitioned for a county truant school. Chapter 155 of the Acts of 1884 provides that "three or more cities or towns in each of two, three, or four contiguous counties may require the county commissioners of such counties to establish union truant schools as provided by section 14 of chapter 48 of the Public Statutes." The Supreme Judicial Court has just rendered a decision in the case of the City of Lynn vs. The County Commissioners of Essex County, that "this statute is mandatory, and county commissioners upon a proper requirement under it, should establish a truant school, without reference to their own views as to the expediency of so doing."

The governor in his last message said: "In the interest of economy, as well as that of good morals, every county should have a good school, to which those who now absent themselves from the schools already provided may be sent for proper training." The committee earnestly hope that some action will be taken during the present year to provide more fitting accommodations for the benefit of our truants.

For the Committee.

ELMORE P. HASKINS, Chairman.

In School Committee,
January 2, 1889.

On motion of Dr. Dunbar:

Voted unanimously, That the thanks of the School Committee are hereby extended to the Hon. Morgan Rotch, who for four years has been the presiding officer of the Board, for the able, impartial, and courteous manner in which he has discharged the duties of the office.

More especially do we desire to express our appreciation of the active and hearty interest which he has continually manifested in our schools, both by deeds and in his public addresses, and for the services which he has rendered in securing the large appropriations which have been made essential by the increasing number of the scholars, assuring him as we now do that he takes with him in his retirement from office the best wishes of every member of this Board.

On motion of Mr. Pitman:

Voted unanimously, That the thanks of the Board are due and are hereby extended to the Vice Chairman, Isaac W. Benjamin, for the able, impartial, and courteous manner in which he has presided at our meetings in the absence of the Chairman.

On motion of Mr. Eldridge:

Voted unanimously, That to our Secretary and Superintendent of Schools the members of the Board desire to express at this time their hearty approbation of the manner in which he has begun his work with us, and their confidence in his ability as an officer and worth as a man. For what he has done we offer our sincere thanks, with the hope that the cordial relations now existing may long continue.

NEW BEDFORD HIGH SCHOOL GRADUATING EXERCISES, JUNE 29, 1888.

PRAYER.

1. CHORUS, "How Bright and Fair." (*Rossini.*)
2. SALUTATORY ADDRESS, Miss Lucy A. Howland.
3. ORATION, "Alexander Hamilton and the Federal Constitution." Charles S. Moynan.
4. ESSAY, "Legends of the Black Forest." Miss Florence A. Hathaway.
5. ESSAY, "The Haunted Apple Tree." Miss Mabel L. Hathaway.

MUSIC.

6. SEMI-CHORUS, "Luna." (*Barnby.*)
7. ESSAY, "Shall we read Romance, History, or Biography?" Miss Mabel A. Spooner.
8. THESIS, "The Detection of Arsenic." Francis K. Allen.
9. ESSAY, "Red Letter Days in our Nation's Life." Miss Isabel S. Horr.

MUSIC.

10. PIANO SOLO. "Rigoletto Fantasie." (*Liszt.*) Miss Louise Lawton.
11. GERMAN DIALOGUE, "Eigensinn." (*Benedix.*)

PERSONEN.

AUSDORF, ein reicher Privatmann,	*Miss Carrie B. Eaton.*
KATHARINA, seine Frau,	*Miss Mabel S. Wrightington.*
EMMA, Beider Tochter,	*Miss Alice M. Bertram.*
ALFRED, Emma's Gatte,	*Miss Anne T. Martin.*
HEINRICH, } in Alfred's Diensten,	*Miss Lizzie L. Robinson.*
LISBETH, }	*Miss Mary L. Smith.*

EXPLANATION.

Lisbeth provokes Heinrich by obstinately refusing to repeat after him, "Thank the Lord, the table is set." ("Gott sei Dank, der Tisch ist gedeckt.") Alfred, on hearing the dispute, laughingly relates it to his wife, Emma, who thinks that Lisbeth is quite right in her refusal, and also positively declines to utter the sentence. Meanwhile Emma's father and mother come to take breakfast with the newly married pair, and observing their embarrassment, hear from Alfred the explanation. Katharina, in her turn, will not yield to the entreaty of Ausdorf to speak the words. At last through the gift of a shawl to Emma, the earnest advice of Katharina, and the joy of Lisbeth at her speedy marriage with Heinrich, the obstinacy (Eigensinn) is ended.

MUSIC.

12. CHORUS FOR GIRLS, "To Thee, O Country." *(Eichberg.)*
13. ESSAY, "Longfellow and Tennyson." Miss Lucy C. Milliken.
14. ADDRESS, "Abyssinia and her Neighbors." Arnold C. Gardner.
15. ESSAY, "The Real and the Ideal." Miss Edna B. Shepard.

MUSIC.

16. CHORUS, "Hail to the Land." *(Gounod.)*
17. PRESENTATION OF DIPLOMAS, By Hon. Morgan Rotch.
18. PARTING SONG.

Words by Miss Shepard. Music by Miss Milliken.

No more these dear familiar halls
Shall know our eager, restless feet:
In dreams alone, when Memory calls,
Shall we in class united meet.
God's tenderness hath smoothed our way,
His care hath kept us leal and true.
For future guidance now we pray:
"Lord, lead us ever safely through."

Farewell to all the happy Past!
The years-to-be fling wide their gate!
Though life be long, in Heaven at last
We'll meet, the Class of Eighty-eight.

O promised land of all our dreams!
Wide Future, just within our clasp!
We stand so near, it almost seems
Your inmost meaning we can grasp.
Your veil hides sorrows unforeseen,
And crosses, hard for us to bear;
But light shines out the clouds between;
"Who bears the cross, the crown shall wear."

19. VALEDICTORY ADDRESS, "Gaining Wisdom."
Miss Edith M. B. Taber.

GRADUATES.

Gain wisdom and use it.

Francis Kempton Allen,
Lewis Melvin Brightman,
Edwin Everett Browning,
Maurice Ronan Buckley,*
Richard Davenport Chase,
William Albert Clark,
James Davis Driggs Comey,
Arnold Carr Gardner,
Charles Robert Frank Greene,
John Gael Hathaway,
William Emery Hathaway,
Michael Ahern Kennedy,
Carl Kalin Macomber,
Frederick Allen Mason,
Edward Delano Morton,
Charles Simpson Moynan,
Frederic Augustus Washburn, Jr.,
Myra Frank Adams,
Arabelle Almy,
Lillias Mason Bennett,
Alice Marion Bertram,
Mary Ellen Campbell,
Lizzie Cornelia Carter,
Clarissa Ruth Davis,
Carrie Bell Eaton,
Florence Annie Hathaway,
Charlotte Tillinghast Hathaway,
Mabel Luther Hathaway,
Isabel Stanton Horr,
Harriet Elizabeth Howard,
Laura Tucker Howland,
Lucy Allen Howland,
Anna Hepsabeth Jourdain,
Ida Virginia Lee,
Louise Lawton,
Anne Taber Martin,
Helena McCullough,
Lucy Chase Milliken,
Grace Matilda Mosher,
Clarissa Moore Nooning,
Lizzie Lawrence Robinson,
Mary Manson Robinson,
Jennie Scarborough,
Edna Brownell Shepard,
Mary Lizzie Smith,
Mabel Amelia Spooner,
Edith May Belle Taber,
Margaret Teresa Welch,
Fannie Harrison Winter,
Mabel Stanley Wrightington.

*Deceased June 20, 1888.

SCHOOL COMMITTEE — 1888.

MORGAN ROTCH, Mayor, Chairman, *ex-officio*.

ISAAC W. BENJAMIN, Vice Chairman.

WILLIAM E. HATCH, Secretary and Superintendent Public Schools.

STEPHEN D. PEIRCE, President of Common Council, *ex-officio*.

WARD 1—G. W. Hillman, Annie R. Borden, Elizabeth W. Stanton.
WARD 2—E. P. Haskins, S. H. Shepherd, I. B. Tompkins, Jr.
WARD 3—W. H. Pitman, I. W. Benjamin, Helen W. Webster.
WARD 4—J. Eldridge, Jr., G. H. Dunbar, W. H. Mathews.
WARD 5—F. A. Washburn, C. T. Bonney, J. Howland, Jr.
WARD 6—F. M. Kennedy, F. H. Gifford, Betsey B. Winslow.

STANDING COMMITTEES.

ON HIGH SCHOOL—Eldridge, Washburn, Bonney, Howland, Dunbar, Benjamin, Mathews, Miss Winslow.

ON GRAMMAR SCHOOLS—Washburn, Miss Winslow, Pitman, Dunbar, Mrs. Webster, Haskins, Mathews, Mrs. Stanton.

ON PRIMARY SCHOOLS—Benjamin, Miss Winslow, Pitman, Shepherd, Tompkins, Mrs. Stanton, Mrs. Borden.

ON COUNTRY SCHOOLS—Mrs. Stanton, Hillman, Mrs. Webster, Gifford, Haskins, Kennedy.

ON FARM SCHOOL—Haskins, Bonney, Washburn, Hillman, Gifford, Kennedy.

ON MILL SCHOOL—Tompkins, Howland, Shepherd, Hillman, Mrs. Webster, Mrs. Borden.

ON EVENING SCHOOLS—Hillman, Pitman, Bonney, Mrs. Borden, Haskins, Gifford, Kennedy.

ON MUSIC—Shepherd, Mathews, Pitman.

ON DRAWING—Mrs. Webster, Eldridge, Miss Winslow, Bonney, Gifford, Dunbar, Howland.

ON SEWING—Miss Winslow, Washburn, Benjamin, Shepherd, Mrs. Stanton, Mrs. Webster.

ON EXAMINATION OF TEACHERS—Eldridge, Dunbar, Washburn, Benjamin, Shepherd, Miss Winslow, Tompkins, Mrs. Stanton, Hillman.

ON TEXT BOOKS—Pitman, Dunbar, Washburn, Mathews, Hillman, Mrs. Borden, Kennedy.

ON EXPENDITURES—Mathews, Benjamin, Dunbar, Howland, Pitman, Tompkins, Eldridge, Gifford, Peirce.

ON HOWLAND FUND—Howland, Benjamin, Mathews, Bonney, Eldridge, Tompkins, Washburn, Peirce.

ON PAY ROLLS—Dunbar, Mathews, Tompkins.

SCHOOL BUILDINGS.

The city owns twenty-five school buildings, with another, the Harrington Memorial, in process of construction. Some of these are pleasantly located, well arranged, and well lighted, and compare favorably with similar buildings of other cities; others are old and unattractive; all are more or less defective in their heating or in their ventilating arrangements, or in both. There are a few that are positively unfit for school purposes, both from their situation and their construction. In some instances they are built on low, wet ground, have no cellars under them, and are consequently damp and unhealthy. The completion of the Harrington school house will admit of the abandonment of two of the worst ones, and will furnish ample accommodations for pupils in the centre of the city for some time to come. It is in the extreme south of the city that the pressure will come for more school buildings at no distant date, and, in fact, the pressure has already been felt.

Owing to inadequate accommodations, it has been necessary to have a half time school in the thirteenth grade of the Grove school during the whole of the last term, and overflow classes in the entries both at the Thompson street and the Dartmouth street schools. Two of these buildings are among the poorest in the city, and their location so low and damp that they should be raised. There has been more or less complaint of them for years. I realize that it is not an opportune time to ask for any changes that will add materially to the present expenses; but the health of the pupils and teachers is of more importance than any other consideration. It is unfortunate that these buildings have been neglected so long; it may appear strange that the defects have not been remedied before; the explanation is found in the fact that it has been but a few years since the School Committee were given control of the school

buildings. Prior to that time, they had been under the charge of the Committee on City Property, who never could be made to realize the necessity of the schools as well as those more intimately connected with them.

The Report of the chief of the Inspection Department of the State contains this statement: "School houses which in most cities are elegant, tasteful, and costly, are as a rule deficient in their sanitary requirements of heating and ventilation. If any one is disposed to question the statement, let him visit the nearest school house in cold weather after the school has been in session for a couple of hours. In nearly every building of this class it will be found that the *dangerous expediency of opening windows* is resorted to for the changing of air, thus exposing a portion of the pupils to uncomfortable draughts, which in very many instances result in serious sickness." If this is the testimony of one, whose business it is under a recent statute to be informed of the condition of the school houses in the State, regarding the most modern and best of these buildings, what must be the facts concerning the old and worst ones? I have referred to the condition of many of the school buildings in our city. In many places the School Committee are having all their school houses examined by sanitary experts. The reports made by these are of exceeding value. Through the knowledge acquired from such a report, the School Board is frequently enabled to expend the money for improvements in a way that brings the fullest returns in the health and comfort of the children and teachers. I respectfully commend this suggestion to the consideration of the Committee.

The manner in which the school houses are cared for has an important bearing also on their sanitary condition. Without question the janitors are faithful in the performance of their duties, and the special committee on the different buildings exercise most faithful supervision over them.

But in the Third Annual Report of the special instructor in Hygiene of the Boston schools I find the following, which is very suggestive and which I venture to quote: "The Committee on Hygiene, feeling the necessity of adopting every measure which will tend to keep the school buildings in the best sanitary condition, have addressed the Committee on Accounts as follows: 'Voted, that the Committee on Accounts be requested to instruct the janitor in each school, that he shall keep all the windows and doors in his school open for five hours each day of the last three days of the week just preceding the opening of the school year (in September), in order that the building may be thoroughly aired for the purpose of disinfection; also, that on one of the days mentioned (the last day preferred) the building shall be heated sufficiently to remove all dampness which may be present; also, that on the first days named the water shall be turned on in all the faucets on the premises which empty into receptacles communicating with drains or cesspools, and allowed to flow long enough to insure the perfect working of the traps attached, from which the water may have evaporated during vacation time; also, that during the week mentioned the whole inside of each room shall be thoroughly brushed or rubbed down; that all the painted surfaces in the school shall be cleansed with a solution of corrosive sublimate (one part to 500); that all the floors shall be mopped or wiped with a cloth moistened with the same solution, and that all the desks, furniture, and apparatus shall be cleaned, and where possible, washed or rubbed with a disinfectant solution.' "

TRUANCY AND THE TRUANT SCHOOL.

The State of Massachusetts takes precedence of all others in the provisions made to secure attendance of children in the schools. The laws that reach both parents

and children are ample enough to secure the best results, if the local authorities take advantage of them. In this city, no pains have been spared during the past year to make these laws effective in the highest degree. Boxes have been placed in school buildings in different districts of the city, and these are visited each day by the truant officer. All cases of absence not properly accounted for are brought to the attention of the officer through cards filled out by the teachers, and placed in these boxes; he investigates and reports as soon as possible to the teachers. In this way the work of the officer is reduced to a system. He soon learns the names and residences of habitual absentees, and can bring his influence to bear on those who are disposed to evade the laws, whether parents or children. He becomes acquainted also with the worthy cases of poverty or misfortune, and by his advice and thorough knowledge of the individual cases the school authorities are enabled to use a wise discretion in relaxing the enforcement of the laws to the letter. To fill the position of truant officer acceptably, requires a person of no ordinary ability. He must possess tact as well as firmness; he must combine sympathy with his exercise of authority; and withal, he must be a man of sound judgment, if his office is to exert the moral effect that it should.

The cases of truancy reported by the teachers and officers do not represent so many individuals. One boy or girl may be responsible for many cases of truancy. Sending a boy to the Farm school, so called, which is the truant school for the city, is the last resort. No provision being made at the school for girls, none can be sent there, and of that fact many of them disposed to truancy are well aware. Enough has been said in past reports in condemnation of the Farm school: I feel, as others do, that it is a miserable make-shift. What is needed is a county truant school, organized and equipped as such a school ought to be.

The governor in his last message recommends such schools. This school should not be a penal institution to which boys and girls who belong in other reformatory institutions are sent. It should partake as much as possible of the nature of a family; only those who are violators of the laws requiring attendance at school should be assigned to this school. Once there, they should be well fed and clothed, and subjected to such discipline and influences as will have a salutary effect upon their future conduct. They should receive also thorough teaching, so that returning to their homes they may be able to resume their school work with those of their own age, that they may not become discouraged, and fall again into their former practices. I agree fully with those who condemn the practice of herding together large numbers of children, who are advanced in different stages of vice and crime, into a school, and calling it a truant school. I am sure that the framers of the law requiring county truant schools never intended them to take the place of the penal institutions for juvenile offenders, and it becomes the duty of those who assign truants to these schools, and those who have them in charge, that they are restricted to their legitimate sphere. It is the duty of the city of New Bedford to unite with the other cities in this county in the establishment and maintenance of a county truant school at the earliest date possible.

The Report of our faithful and very efficient truant officer, Mr. Isaac B. Tompkins, for the period covered by his term of office is hereby given. Mr. Paine, who has filled the position for some years, has been compelled by poor health to be absent from his duties during a large portion of the year.

New Bedford, January 1st, 1889.

To the Superintendent of Schools:

Dear Sir:—I herewith submit to you my Report for the

months of September, October, November, and December, 1888.

Families visited,	198
Boys interviewed on streets,	96
Visits to different mills,	8
Visits to different schools,	197
Commitments to Truant school,	2
Number of truants now in Truant school,	13

ISAAC B. TOMPKINS, Truant Officer.

THE SCHOOLS.

In order to know thoroughly the schools under his charge the Superintendent must visit them frequently. His knowledge of the organization of each, of the methods of teaching employed therein, of the discipline to which the pupils are subjected, of the character and disposition of each teacher,—all these should come, so far as possible, from his personal observation in the schools themselves. It is only through these visits that he can form correct estimates of the comparative value of the work done in the different schools of the same grade or be able to so advise the Board that the whole school system may be brought into harmony and into efficient coöperation. In a city as large as ours, and partaking of its characteristics, the Superintendent has a great many demands made upon his time, and he is unable therefore to see as much of the inner school life as he desires; but, during the short period that I have held the office, I have spent as much of my time in the schools as I could spare from my other duties, and have visited every room several times. I have met each month also the principals, and have discussed with them methods of discipline and instruction, and sought through them information as to the chief needs and short-comings of the schools. From my own observations, and from knowledge gathered from the teachers, I became convinced in a short time that there

were a few radical changes needed, if the schools were to maintain in the future a corresponding fame with that which they have enjoyed in the past. Some of these changes, by the consent and coöperation of the Board, have been made already, and others are under consideration. The only one to which I will call attention at this point is the demand for a new manual. The old one, most admirable of its kind and famous in its day, has long grown into disuse. Another better adapted to the now accepted ideas on education was under advisement for several years by the late Superintendent; but unfortunately it had taken no tangible form when he was removed by death. Without a manual, new teachers have no guide as to the limitations of the work in their grades; the teachers of longer connection are at a loss to know just what to do, and what not to do; and there soon ceases to be that continuity of work which is absolutely necessary to any well ordered system where each part is closely related to the whole. A manual is also a great aid in suggesting to all the teachers the general line of instruction and government desired by the Board, and, in fact, herein lies its chief usefulness; to know just what is required of him is the prerogative of every teacher; knowing this, he should be left free to employ his powers and resources unhampered, if his products bear the impress of sound teaching. Before another school year opens I hope to have prepared, by the aid and coöperation of the teachers, a manual based on sound philosophical principles and framed in the light of practical experience. Other changes, to which I have referred, will be treated in other connections.

PRIMARY SCHOOLS.

Teachers.—There still exists in the minds of many the fallacious idea that untrained, inexperienced teachers are

good enough for primary schools. When will this theory be exploded? When will it cease to be held by intelligent persons that a young lady who possesses a modicum of book knowledge, who has never had any experience with children, who knows little or nothing of the laws of mental development, is sufficiently equipped to take complete charge of forty or more little ones for five hours each day to control and instruct. If ever there is a time when pupils need to come under the influence of a teacher of judgment, possessing a firm yet kind and loving nature, of one who has had the benefit of special training for the work, it is during their first years of school life. It is then that their minds are most pliant, most receptive, and easier directed into correct habits of thinking and acting than at any subsequent period of their lives. And again, a large number of children finish their school education in the primary grades. This is shown by the statistics of every city and town.

The only knowledge and training which the schools are to furnish this class must be given in these few years. Is it not of supreme importance then that the teaching shall be of the best in these schools?

I do not wish to give the impression that there are not many worthy and thorough teachers in our primary schools. My experience with them is limited, it is true, but I have seen enough to convince me that many of them are most excellent. But, on the other hand, there are some who are not aware, apparently, of the great responsibility that rests upon them; who evidently feel that they are performing their whole duty when they go through the hum-drum routine of hearing lessons day by day. I have even heard the argument advanced by some of them that the primary teacher had little or nothing to do in the way of preparation for the work outside of school hours. I am sorry for the children who sit at the feet of such teachers,

and I am extremely sorry for the teachers themselves. The preparation required of candidates for assignment to teach in these schools is an advance from that which was required a few years ago by the Board. I find by reference to the Reports of previous years that the subject has been receiving their attention for some time. Three months of observation in the schools without pay is now exacted of those who have passed the required examination, and have not had successful experience elsewhere.

But the root of the trouble is not reached yet. A more thorough preparation than this is necessary, and is being demanded elsewhere. All the large cities of New England are founding special training schools for teachers as adjuncts of their school system, while the smaller ones are making drafts for teachers of successful experience upon the towns that pay small salaries. I am not an advocate of any doctrine that would compel a young lady resident to go away from home to acquire experience or training before she shall be accepted as a teacher in our schools. But I do maintain that the schools are supported for the benefit of the children, and not for those who teach, and, as the trite saying, "As the teacher so the school," is a true one, I most earnestly commend to your Board the necessity of strengthening the schools from the foundation by demanding a thorough and professional training from those who are hereafter to fill the vacancies arising in the primary grades.

Instruction and Methods.—The employment of untrained teachers, and the absence of a manual for a guide, is evidenced in the crude methods of teaching observable in many of these schools, as well as in the wide difference in the preparation of those pupils who are presented as candidates for the grammar schools. The policy of promoting the children in mass, combined with the other two facts stated, has the effect of lowering the standard of the work in the lower grammar grades.

The outcome is, that frequently the teachers in those grades are discouraged in their attempts to unify the work of those coming from different primary schools, and are often criticised for not securing better results, while the source of the difficulty lies wholly without their jurisdiction. But one section of the schools cannot be affected injuriously without all the others suffering in a greater or less degree. They all form a complete system, beginning with the lowest primary grade and ending with the first class in the high. The curriculum must be arranged not only with reference to the pupils of any one part but with consideration of the whole system; the methods of teaching should be sound from the beginning to the end; discipline should not be administered with reference only to each act, but with recognition of the training of the past, and of that which is to follow.

With these thoughts in mind, I have examined carefully the methods employed in teaching the different branches, as well as the means of discipline in general use. While I have found much to commend in both, there exist faults which involve a great waste of energy and time on the part of the teachers and pupils. In the majority of the schools objective methods are used, but in many instances the want of skill and appreciation of the end sought are apparent. In arithmetic the time has been employed during the first two years in developing the processes of addition and subtraction only. I believe this to be wrong, for it has been long conceded that the best results are obtained in this study by taking the four processes together; in language, the amount and kind of instruction varies with the ideas of the individual teacher; in reading and spelling, the methods employed are generally good, and the results correspondingly so; the course, however, is graded rather high, and it would be an improvement to modify this; in geography, nothing whatever is attempted

during the first four years; in music, the plan formulated a few years ago is being carried forward by the special teacher in that branch, and most gratifying results are being evidenced: drawing and the study of form, which until the past term had no substance, is now by a recent act of the Committee to occupy that place in the primary work that it deserves; writing, which shows fair results at the outset, is not continued with that thoroughness of drill which alone can make it effective. The discipline is full strict enough, and would be improved, I think, if corporal punishment was not resorted to so frequently; but the government is of such a nature in many rooms that habits of self control, of prompt and quiet obedience to constituted authority, are developed but little.

I have stated here briefly the general condition of the schools as they appeared to me in my visits. I do not care to elaborate on these matters, or seek the remedies in this Report; they can be explained to the Committee in conference and the needed reforms brought about by the actual work in the school room. The efficient chairman has recommended in his Report the preparation of a new manual, and the opening of a training school for teachers, the two things most needful to produce greater efficiency in this department. I am confident that the teachers are ready to embrace with enthusiasm any suggestions that will tend to secure better results for their arduous and, at times, most perplexing labors.

GRAMMAR SCHOOLS.

There are three distinct grammar schools in the city, and one building which is used partly for grammar, partly for primary grades. An overflow of the ninth grade in the Fifth street school finds quarters in a primary building. The whole number of different rooms used for grammar schools is thirty-seven.

Forty-one teachers, including the principals, are now employed in them, who look after the interests of 1447 pupils. A wise provision of the Board restricts the number of seats in each room to fifty. No teacher can do justice to many more than forty pupils, and the average number to a teacher, exclusive of the principals of the three large buildings, varies but little from this at present. In many places, the average cost per pupil is reduced by assigning fifty or more pupils to a teacher. But where this policy is pursued, the teacher either is overworked, or some duties are shirked; and more, the size of the average school room, ventilated howsoever well, does not warrant the placing of more than forty pupils in it.

The advantages enjoyed by the grammar schools in this city are superior in many respects to those of any with which I am acquainted. We hear frequent complaints from teachers less favored, that they are hampered in their work by the lack of suitable reference books by which their teaching may be broadened and habits of research inculcated in their pupils; or that their methods are not of the best, because they do not have those means of illustration which enable them to present the subjects taught in a practical manner; or that, not having a supply of supplementary books to use in connection with the regular text books, the recitations become monotonous and uninteresting. But no such excuses hold good with us. The Howland fund, that inestimable blessing to the schools of this city, furnish all these and more, if necessary. The teachers have but to stretch forth their hands, and every want is supplied from this or the regular appropriation that will aid them in making their work most effective. If, then, those who attend these schools do not attain that proficiency of knowledge which we have reason to expect, or do not acquire correct habits of study, the deficiency must be attributed to other causes than those arising from a dearth of proper working materials.

The question to be met then is, are the acquirements of the pupils in the different grades proportionate to the time and energy spent upon them, and the advantages with which they are surrounded? If I answer this question in the affirmative, I fear the facts will not warrant the assertion; if, on the other hand, I affirm that such is not the case, I fear that I may be accused of hypercriticism and of a disposition to find fault, where slight cause exists. But I shall be bold to affirm — and I hope with a just recognition of the merits of the schools — that, taken as a whole, their condition is not such as to give complete satisfaction to those most intimate with them. The ideal is not to be attained, it is true; defects are to be expected, and it would not be rational to look for perfection in these schools more than in any sphere of human endeavor. I trust that I am not disloyal to the highest interests of the schools in the criticisms that I make.

Progress can only come where existing conditions are recognized to be undesirable: and, if the schools are not doing all they should, their friends ought to be the foremost in advocating such remedies as will effect a cure, or at least an improvement. I feel that I shall be sustained in what I have said by the teachers themselves, and by the members of the Committee who know best the condition of things.

The causes of the weaknesses in the grammar schools lie not wholly within them. They are but a part of a closely related system. If the pupils who come to them from the lower schools have not been thoroughly grounded in the elements of the studies that they are to continue; if their methods of thinking and reasoning have not been acquired with the guidance of sound educational principles; if they vary greatly in the amount of knowledge which they are expected to have in the different branches — it is readily seen how the higher schools are affected. My observations of

some of the conditions that have made the above true of the primary schools, as shown in my report on them, reveal some of the difficulties with which the grammar teachers have had to labor. On the other hand, the faults of these schools cannot be wholly or mainly charged to the condition of the pupils entering them. The principal causes must be sought for elsewhere. One of these is the absence of a well defined course of study; another, the want of a firm and fixed policy as to promotions from grade to grade. Without the former, there is necessarily a great waste of time; without the latter, pupils unfitted to do the work of the class are found in every grade. I do not believe in any cast iron rule to govern the promotion of pupils from grade to grade, but it is my experience and the testimony of the best teachers whom I have heard express an opinion on the subject, that the effect is most injurious to the schools when pupils who have not reached a fair standard are allowed to advance. There are exceptions that should be made to the rule, all admit, but these should be made with discrimination and judgment.

The teachers who have charge of these schools are not wanting as a rule in ability or fidelity to duty; many of them are cultured and refined, and their influence over their pupils is of the best; that all intend to be faithful to their great trust is undoubtedly true; that there should be some failures is not strange. The method of filling the vacancies that occur in this corps, which is, to promote successful primary teachers (called promotion, I presume, because the salary is more), may be good policy and may not. It depends. Without doubt, many a good primary teacher has become a very indifferent grammar teacher. Without question the effect is to constantly weaken the primary schools, the very life and foundation of the school system. But in whatever way the appointments may be made, the grammar schools cannot possess the strength they should,

unless their teachers add to experience professional knowledge. This can only be acquired by the study of those books which embody the observations and experiences of other educators, and of human nature, the material with which they deal.

The chairman of the Committee on Grammar Schools in his Report has referred to some changes which have been made recently in text books in this department, and has expressed the belief that they will prove beneficial. This will not be questioned, I think, if the object is fully understood. This is, to have uniform books in all schools of the same grades, and also to have those in use which conform to the most advanced ideas of educational thought. It is of vital importance to every teacher whether the text books are graded to the capacity of the pupils, are suggestive in the treatment of the various topics, are framed in accordance with sound educational principals, or *per contra*, are deficient in any or all of these respects.

I trust that the impression will not be left in the minds of any from what has been said that these schools are not doing a grand and noble work, or that, considered individually, each teacher is not laboring to good purpose. I sincerely believe that the public schools furnish the best training, the soundest knowledge of any in this country, and that ours compare favorably with the best. What I have attempted to show is this, that certain conditions exist in them that have a tendency to weaken their efficiency and if allowed to go unremedied will cause them to retrograde. The common school system is criticised by some as undertaking too much already; others would enlarge its scope so that it embrace a training in all the arts and sciences. It appears to me that conservatism and radicalism are judiciously blended in the general administration of the schools of the city, and while that which in the light of experience seems good is held to, there is a perfect willing-

ness to experiment with the new, provided after careful investigation it appears to bear the stamp of worth.

UNGRADED SCHOOLS.

Country Schools.—According to the present classification, the country schools embrace not only the four that are strictly ungraded, but also two that are graded, although not so closely as those in the more thickly settled portions of the city. These two are the Acushnet and the Cannonville; the former comprising three rooms with nine grades, the latter, two rooms with six grades. By placing these last mentioned under the grammar and the primary departments, undoubtedly a new stimulus would be given the work in them, and other advantages would accrue. I have taken pains to visit each country school during the year, remaining long enough at each visit to secure much information regarding its condition, the methods employed in teaching, and the progress that was being made by the pupils. I have also interchanged views with the different teachers on organization, discipline, and instruction. The information thus gained gives me the impression that they vary but little from others of their kind, and are not what they are capable of being made under a system like ours. There is some good individual work, there is some very poor. No two appear to be working on the same plan, and not all with the idea that modern educational methods, based on psychological laws, are just as capable of being put into practice in these schools as in any other.

In the "old fashioned" country school the length of the school year was usually short, especially for the older pupils. Frequently the teacher of the winter term, when the larger pupils attended school, was a different person from the one who taught in the summer. Neither as a rule had any special training for her calling, and frequently little

education. Each "deestrict" was a small oligarchy ruled by a few committeemen who lived in it, and whose knowledge of books and human nature was usually very limited. Appliances for illustration were few, if any were furnished: the text books were of the poorest description, and books of reference unheard of luxuries; the pupils ranged in ages from four to twenty-one or older, attending very irregularly and only a few months a year.

Laboring under such adverse circumstances the pupils learned but little, and in time it came to be the custom to expect only poor results from ungraded schools in general. And the opinion still prevails to a certain extent among a large class of people that it is injustice to expect from a teacher of an ungraded school results that compare favorably with one fully graded, even if all the advantages are the same to both except the grading. This feeling frequently infects the teachers, and it is no unusual thing for one to reply, when attention is directed to faulty teaching and unsatisfactory results, "I cannot be expected to do as good work in a school of this kind as is done in a graded one." Such an excuse should never be offered for unsound teaching, and, in my opinion, in no case where the number of pupils in the school is less than thirty, and the school forms part of any well ordered school system. The law of the state abolishing districts and placing all the schools in each city or town under one central Board had for one of its objects the elevation of those in the country. They have improved very much since the passage of the law, through the employment of better teachers and the lengthening of the school year. Here, as good salaries are paid in these as in any. They have the same text books, and, if the teachers request them, all other appliances necessary.

Recently a special teacher in drawing has been appointed to teach that branch in them every week, and the instructor in music visits all but those most remote. It rests with the teachers to make them models of their kind.

I would not have it thought that I do not recognize some of the peculiar disadvantages that are met in teaching a country school. I do, while at the same time I would have it borne in mind that it has come to be an accepted theory of educators that there are some special advantages incident to such a school. The advantages of the graded system pertain largely to economy of time and money; for a teacher can instruct well a larger number of pupils in one grade than where there are many grades. The country school teacher has these helps: The pupils have more time for individual study in the school room; the recitation of the older pupils in the presence of the younger add to the knowledge of the latter; the manner in which the pupils spend their time out of school is less apt to divert their thoughts from their studies than is that of those in the city; the teacher by longer association with the pupils and with the conditions of country life, can know them and their parents more intimately than the one in the city.

It it true that the size of the classes, consisting frequently of only one or two pupils, is not very stimulating to the teacher or the scholars, and the number of recitations tends to loss of time. But sufficient stimulus will be supplied by the thoughtful and energetic teacher in the one case, and good organization, with a well planned program for each day's work, will guard against the other. These positions demand teachers who are trained, who are well equipped mentally, and who are physically strong, for the instruction has a broad range and the duties are arduous.

If, then, only those teachers who are thoroughly fitted for these positions are assigned to them, and the salaries made large enough to make the places desirable, and thus avoid frequent changes, I can see no reason why equal proficiency cannot be expected and demanded of the pupils in these schools as is attained in the best graded ones.

Mill Schools.—These schools, as the name indicates, are

intended for the benefit of those pupils who are compelled by force of circumstances to work part of the time in the mills before they are entirely relieved from attendance at day schools. Although they were instituted especially for those who find employment in the mills, hence their title, those following other occupations a portion of the year are sent to them. They are a very necessary adjunct of our school system, and perform a most useful and effective work. It has long been a problem with school authorities in cities and towns containing industries that employed a number of children, how to provide for the schooling of those who worked five months and went to school the other five demanded by law. It was hard to adjust them to the graded classes without doing them, or the others in the school, injustice. I think the question has been settled here in the best manner possible, and the longer my acquaintance with these schools the more thoroughly I am convinced of the fact. There are two rooms only that are now used for these schools, one in the north part of the city, the other in the south. They are ungraded schools, yet differing essentially from such schools located in the suburbs. The majority of the pupils have attended at an earlier age the regular primary grades; some may have reached the lower grammar; a few have been to neither, making their first appearance in our schools as pupils of these classes, never having attended school anywhere with any regularity. The terms do not correspond with those of the other schools; with these there are four terms, each twelve weeks long, with an intermission of one week between each.

It requires teachers of tried experience, of tact, and of sound judgment to conduct these schools successfully and with little friction. The ladies in charge show eminent qualifications for these positions, and are filling them most acceptably.

THE HIGH SCHOOL.

The chairman of the High School Committee, in his valuable Reports of the last year and this, has presented so clearly and fully the aim and scope of the instruction in the different departments of this school, that I am relieved from attempting anything in detail relating to it. One is enabled by reading them to get not only a fair knowledge of the general purpose which characterizes the whole of the teaching, but also the methods employed in treating each branch of study.

The advantages offered now by this school to its pupils are unquestionably equal to those offered by the best of its kind. The course in English, adopted several years ago, and now for the first time operative in every class, is not only systematic and thorough but in accord with the ideas of the best teachers of this subject. The department of natural science is quite complete, and the methods of presentation objective and scientific. One of the agents of the State Board of Education, in a report made by him a few years since on the high schools of the state, thus expresses himself: "In a majority of schools there is little attempt to make the students scientific, and the attempt to give them science fails. Four causes conspire to produce this state of affairs. First, the absence of elementary science teaching in the lower schools; second, the amount and variety of work imposed upon the teachers in most of the high schools; third, the scanty provision by the school authorities of the means of teaching; fourth, the fact that many of the teachers have not been trained in the modern scientific method." There is no attempt to teach elementary science in the lower schools at present, but I hope that will not be true very much longer.

The other reasons given why the teaching is not scientific in high schools do not apply to ours. The teachers

have time to do well what is required of them; the department has all necessary appliances for its work; the teachers have been trained in modern scientific methods. There seem to exist no strong reasons why the best of results should not be expected, and I am confident that such are being obtained. It remains but to add, so far as the teaching in all the departments of the school is concerned, that it is marked by an earnestness of purpose and an intelligence of conception on the part of the teachers that bodes well for the future.

The physical welfare of the pupils is not forgotten in caring for their mental development. Provision is made by which the boys take a thorough course in military drill and the girls a course in light gymnastics. In this way all the pupils have a certain amount of regular and systematic exercise, and its beneficial effects are apparent.

But the High school has a higher sphere of duty than the cultivation of the purely mental qualities of its students and the development of their bodies. It should aid them to a noble manhood and a noble womanhood, through the exercise of those moral attributes that form and establish character. This is being done most effectually in the school. One cannot fail to be impressed with its tone. It is good throughout. The pupils appear to be influenced to act from proper motives to do what is right, and are not driven to do so from fear of punishment, or with hope of reward. When such is the spirit of administration, breaches of discipline become rare, and government grows easy.

EVENING SCHOOLS.

The manufacturing places of the state, especially those in which there are located many cotton and woolen mills, are feeling the effect of recent legislation relating to evening schools far more than the others. This is due to the

fact that the population of such places contains the largest percentage of illiterates, or at least persons who cannot read or write in the English language; and such are now forced by the laws to attend evening schools regularly, or they cannot be employed in mercantile or manufacturing establishments. These compulsory laws are not only an advance step in educational progress, but most wise, and in time they would reduce the illiteracy of the state to a minimum, were the school laws of the neighboring states, and of those foreign countries that contribute so largely to our population, equally progressive and stringent.

As it is, we suffer for the omissions of others. Very many of the illiterates belong to a floating population; they are here today, somewhere else tomorrow. If they seek employment in our city, we compel them to enter the evening schools. They scarcely get settled to their studies before they leave the city, and their places are taken by others.

Owing to this class of persons, the average number of pupils belonging is kept large, while the average nightly attendance is much smaller, making the cost high, and the returns for the outlay unsatisfactory in proportion.

Admission to the evening schools is now refused to all those who are under fourteen years of age, except a few between thirteen and fourteen, who, having complied with the laws relating to attendance in day schools, have not learned to read and write in English.

The growth of the schools in this city has been remarkable within two years. A few years since they opened usually with an attendance of two hundred or three hundred pupils, and closed with half that number; now the average number belonging is about one thousand, with an average nighty attendance of about eight hundred. (The exact figures for each school may be seen by reference to the table of statistics.) The pupils may be divided into

two general classes: the illiterates, who are compelled by law to attend, and such others as have been deprived of advantages of schools in their early life and are ambitious to secure at least an elementary education.

There are in attendance at present about 75 per cent. of the former class to 25 per cent. of the latter.

As much individual work is necessary in the evening schools, a teacher cannot instruct more than twenty pupils; therefore the proportion of teachers to the pupils is larger than in the day schools. Forty are now employed. The principals are all experienced in evening school work, and this is true of many of the other teachers. Although my personal observation of the actual teaching in these schools has been somewhat limited, I have a fair knowledge of what they are doing, as well as what is being accomplished in this direction in other cities, and I think examination will prove that there are few better in the state. The prevailing discipline is mild, yet effective, and the order most excellent. They are quite well graded and the instruction is good, according to the present standard for such schools.

While I deplore in common with others the causes that make evening schools necessary, and sympathize with those individual cases that suffer most from the compulsory laws, I believe they are a wise provision, and should receive most ardent support. They have a sphere peculiarly their own, however, and in no way should be allowed to encroach upon the rights of the day schools. It appears to me that they are now but in the experimental stages, notwithstanding the great advance that they have made during the past few years. Massachusetts has taken the lead in this department of education, as she has done and will continue to do in others. It remains for our sister states to follow her noble example, and give their support to a movement whose aim is to elevate the standard of citizenship, by placing the fruits of knowledge within the reach of all.

DRAWING.

In Day Schools.—The study of industrial drawing in the public schools is now regarded by educational men as one of the most important in the whole curriculum. Even those who are not in favor of connecting carpentry, cooking, sewing, and other forms of manual teaching with the schools, concede to drawing a legitimate and important place in the course of study. It is not my purpose to dwell upon the arguments that have been adduced in favor of ingrafting this scion upon the educational stem. Those have been presented over and again. Its teaching is required by the laws of our state, and New Bedford was one of the first cities in the country to employ a special and trained instructor in this branch. Many pupils have gone forth from her schools to apply the technical knowledge acquired there to the practical tests of every day life, and have found it the means of an honorable and lucrative business.

I intend in this Report only to trace very briefly the history of this study in its connection with the schools, and to show the aim and intent of the present revised plan of work.

When the drawing was placed in charge of the present instructor some fourteen years ago, the ideas that held sway regarding the methods of teaching it differed much from those that are accepted today. The system introduced confined the work chiefly to copying from the flat, the accepted theory at that time. This plan was followed for some years, and not proving satisfactory, a complete change was made by which drawing from objects alone was substituted. This extreme change failed to satisfy the Committee; something yet was wanting to make the results apparent in the pupils, which is a true outgrowth of a correct system and sound teaching. Therefore, I find

it recommended in the Report of the Superintendent of Schools for 1885 that the Prang system, so called, be introduced. Its merits are there set forth as follows: "Enough that it applies drawing intelligently and readily, *first*, to the common forms of geometry; *second*, to the science and art of construction,—that is, making working drawings, from which objects may be constructed; *third*, to representation, or the science and art of representing objects as they appear to the eye; and *fourth*, to decoration, or the art of ornamental design. And this effected by a scientifically graded course of designs intended to be duplicated from objects, every step of which, including the facts of perspective and the art of construction, is derived by the pupil directly from the study of the objects themselves."

Suffice it to say that this recommendation met with the approval of the School Committee, but for some reason no immediate steps were taken by which the system was put into the schools under any well formulated plan. Last spring the Committee on Drawing reported to the full Board that the subject required attention at their hands. A vote was passed by which the Superintendent was instructed to formulate a course of study in drawing for the schools in accordance with the Prang system, and to take such steps as were necessary to place the subject in its proper relation to the schools. Acting under these instructions I have adapted the course prepared by Mr. Bailey, state agent in drawing, to the first three years of the primary grades, and the others are in process of preparation. All the grades, however, are working under this system, Mr. Cumming, the director of drawing, having prepared a course for the High school and the two upper grammar grades in keeping with the vote of the Board.

Some changes have been made in the distribution of the time of the special instructor. He now teaches personally

the pupils of the High school and those of the two highest grammar grades. The remainder of his time is given to inspecting the work of the primary and the lower grammar grades and in assisting the teachers of those grades.

With due appreciation of what has been accomplished in drawing in the schools in the past, I am confident that the study never had so good a standing in them as it has today. Where one pupil has been touched by its influence heretofore, there will be a score in the future. As the underlying principles become better understood by the teachers the effect will be felt still more by the pupils. With a thoroughly graded and progressive system in operation in all the schools, a few years will show a marked change in the general average of work.

Evening Drawing School.—This special department in drawing began its work this winter under the most favorable circumstances.

A full and complete course of study was prepared for the school and approved by the Board. It provides for a preliminary course in geometry and in free-hand drawing during the first year. This is followed the second year by the advanced courses; these are, the free-hand course, the architectural course, the designers course, the glass decorators course, and the course in machine drawings.

Mr. Arthur Cumming is the principal, as usual, and has charge of the special courses and the free-hand drawing. Mr. Albert B. Drake has charge of the geometry class, and Mr. George A. Stetson instructs those in machine drawings.

An additional room has been fitted up with electric lights for the use of the school. There is now every facility provided for each department.

The average number of pupils belonging to the school during the fall term has been 70.

The attendance is good, and in my visits I have found the school in excellent order. The time has been length-

ened to two hours each night, instead of one and a half hours, which formerly prevailed. If sessions were held three nights each week instead of two, undoubtedly the school would be benefited; the terms would not be so long, and the attendance would not suffer so much as it does during the last weeks of the school.

The evening drawing school is a very important adjunct to the evening school system. The pupils are usually those who intend to employ the knowledge acquired there in the practical affairs of their every-day occupations, and therefore apply themselves with a zeal and interest that is difficult to incite in those who cannot see the immediate good of their study. When these schools fail to do good work, the fault lies either in the organization of the school or in the poor teaching. There does not appear any weakness at present in either of these respects in the school, and, judging from all appearances, a most profitable session may be expected.

A TRAINING SCHOOL FOR TEACHERS.

One of the questions that has received much attention from the Committee for the past few years, as evidenced by their Reports, is the one most vital to the interest of the schools, namely, the preparation of those who are being appointed to teach them.

I quote the following from the Superintendent's Report of 1884: "The weakest point in our whole school system is the loose, improvident way in which vacancies occurring in our corps of teachers are filled. By universal consent the very corner stone of a good school system is the employment of none except first class teachers; and those school authorities alone are squarely abreast of this requirement, who, utterly regardless of side issues of every kind, seek for and obtain thoroughly capable and thoroughly

experienced teachers wherever they may be found, and give positions to none beside. But we, when we feel a want, make public advertisement of a time when an examination will be held of candidates to be teachers, and in due time hold the examination. Anybody and everybody may compete who is supposed to have a fair, ordinary education. The questions are strictly elementary in character, and the standard of acceptation is by no means stringent. Those who pass this clement ordeal are placed on the list of accepted candidates, and are thereby supposed by themselves and their friends to have a claim to employment."

The manner of recruiting the teaching force as described above, has had a weakening effect upon the schools, although since these words were first written the Board has made the requirements much more stringent for admission to the corps. Such teachers as pass the examination now demanded, and have had some years of succeseful experience, fulfil every condition that can be asked in reason for appointment to positions in any grade of the schools. It is the custom with us to fill vacancies occurring in the High school and in the grammar schools by the advancement of those teachers from the lower grades who answer these conditions. The tendency of this method is to sap the life of the primary schools, as the places made vacant in them are filled with young teachers of little practical experience, and no special training,— graduates chiefly of the High school and residents of the city. They have given no time to particular preparation for the profession which they are to adopt; they know little or nothing of the accepted methods of teaching or of government that prevail; they possess only such a ground work of knowledge as is furnished by the High school. In preparing for the practice of every other profession it is considered absolutely necessary for final success to supplement a good education with several years' study in a special school, and to add to

this association with those who are considered experts in practical application. It must come to this with those intending to teach, and some such preparation is now generally acknowledged by educators to be indispensable. The normal schools of the different states are founded for the specific purpose of preparing teachers suitably for their occupation. But they cannot supply the demand made for trained teachers, and large cities like this are providing training schools in connection with their own school systems. These differ in the details of their organization, but are similar as to their general plan and purport. They do not entail a great additional expense upon the cost of the schools, and their benefit is proven beyond question. Their graduates are conversant not only with the best theories of education, but are acquainted with the accepted methods of applying them to instruction. They have a knowledge concerning the organization of the schools in their own city, and when placed in control of one, are enabled to administer its affairs as no novice can. The Committee are knowing to the particular qualifications of each of the trainers, and can select with discriminating judgment a suitable one for any occurring vacancy.

In view of the conditions already presented, I submit to the Board the advisability of locating in the Harrington Memorial school building, when it is opened for school purposes, a training school for teachers. The value of the memorial to that noble educator, who with voice and pen was ever earnest in his advocacy of most thorough preparation by teachers for their high calling, will be enhanced by devoting the building named in his honor to a purpose which has this end in view.

It may not be amiss to give in connection a brief outline of a plan which suggests itself as a suitable one on which to found such a school here, although many modifications may be deemed advisable, if measures are taken to establish it.

First.—Pupils of the first six years of school life shall be included in its organization, that pupil-teachers may have practice in both grammar and primary school work.

Second.—It shall be placed in charge of a principal and a vice principal, both of whom shall possess good administrative ability, and shall be not only expert teachers, but also have had special training for normal work.

Third.—There shall be at least three pupil-teachers for each room, whose whole term of service shall be one and a half years. These are to be divided into three classes, known as the junior, middle, and senior.

Fourth.—Graduates of the New Bedford High school shall be admitted without examination, and graduates from any other high or normal school upon such an examination as the Committee may prescribe. All shall take a suitable examination for a training school diploma. This diploma shall have the force of a second and third grade certificate as now established by the Board.

Fifth.—The pupil-teachers of the junior class shall receive no compensation for their services; those of the middle class shall receive four dollars per week, and those of the senior class, eight dollars per week. The senior class shall perform such substituting as the Committee may require of them, without extra pay beyond their regular salaries.

Sixth.—The time of the pupil-teachers shall be given, first, to study, under the principal or her assistant, of the principles of education and the methods of teaching the specific branches required in the common school curriculum; second, to working with classes of pupils.

The above brief sketch of a scheme for a training school is not submitted as an ideal one, by any means, but one which seems to be perfectly feasible for our present purpose, and which in operation will certainly tend to stimulate the teaching throughout the schools, and increase their cost but immaterially.

THE RECESS QUESTION.

Among the many changes that have taken place in school affairs during the past fifteen or twenty years, those that relate to school sessions may be numbered among the important ones. It is to be presumed that those changes have been the outgrowth of the experience and wisdom of those most intimately connected with school matters, and who have taken such action from time to time as the changing state of society and the conditions that affected the schools demanded. It is also fair to presume that after the experimental period of any innovation has passed, and the results meet with the sanction of a large majority of those most closely affected—it is only fair to presume, I repeat, to claim for such an innovation the need of success. The adoption of one session in the high schools; the shortening of the afternoon session, and the abolition of the recess during that session, in the elementary schools; the shortening of the forenoon session, and the abolition of the recess during that time also,—these are the most important modifications that have occurred during recent years in that part of school management that relates to sessions. And all of the above mentioned breakings-away from the customs of the past may be well said to have passed the trial stage, and are considered by the majority of those who have tried them to be improvements over the former prevailing customs. They have not been adopted, it is true, without strong opposition and without many dire prognostications being made as to the evil effects that would follow —effects that would more than counterbalance the acknowledged good that might come. But where they have been adopted, there they remain, although years of trial have intervened: and more, each year witnesseth other places following the example of those who have been the pioneers in these movements.

In New Bedford the first two are accepted facts, and appear to give general satisfaction. The last has not been tried as yet, but, being under advisement by the Committee, it may not be amiss to present the reasons that have influenced the School Boards of many cities to abolish recesses altogether, and give also some of the important places where the plan has existed for some years.

Before doing so, however, I wish to say that recesses in the schools of large places are not the unmitigated blessings that many appear to think they are. One has but to talk with the teachers on the subject, observe carefully the actions of the pupils on their play grounds, and listen to their conversation, to become convinced that there are grave reasons for considering the question of no recess with calm and deliberative judgment, weighing the pros and cons by the light of knowledge gained from careful investigation of the facts as they exist. Custom is apt to acquire such a hold upon the actions of even the most conscientious of the human race that through it error appears in the guise of truth, and that which is evil takes the form of goodness. May it not be that the recess, which has so long been considered a blessing, has been disporting itself in false colors? If so, shall it not be known, and shall not judgment be passed upon it in accordance with the evidence?

So far as my information goes, the movement to do away with recess in the schools had its origin in New York state some fifteen years ago. Since that time, it has found favor in many cities where it is now in successful operation, and has been for a period varying from two to fifteen years. The following are among the many places where the recesses are dispensed with: Rochester, Albany, Troy, Newburg, Owego, all situated in New York state; Newport, R. I.: Springfield, Woburn, Haverhill, Quincy, in Massachusetts: and it is also being tried in districts of Boston. The Superintendent of Schools in Rochester, N. Y., after it had been

tried there for some years, thus speaks of it: "Probably no change of so great importance has ever been made in the management of our schools against which so few objections have been urged, or that has met with such general approval." The testimony of the Superintendents of Schools in Albany and Woburn, both gentlemen of long and successful experience in school affairs, corroborates that of the Rochester Superintendent.

I shall quote now at length from a report made several years ago by Hon. A. P. Stone, member of the Massachusetts State Board of Education, to the School Committee of Springfield, when he was Superintendent of Schools in that place. He visited Rochester, made a careful and searching investigation of the workings of the no-recess plan there, and also entered into correspondence with the school authorities of other large places where it was in use.

He reported as follows: "This plan was not adopted at Rochester without mature consideration. It was referred to a committee of six persons, who investigated the subject and authorized a trial of it to be made in a few schools. Meantime, measures were taken to obtain the views of pupils, teachers, and parents, upon the matter, and to explain the nature of the change proposed. Physicians were also consulted and their opinions asked as to the desirability of the change. The result of the experiment was so satisfactory, and the opinions of all parties consulted were so favorable, that the Committee unanimously recommended the abolition of the recess. The report was unanimously adopted by the Board of School Committees, and carried into immediate effect in all the schools, except the High school, which has one session of four hours. From my interviews, observations, and correspondence, as spoken of above, I divine the following as a proper statement of the no-recess plan, and of its advantages, as claimed by its friends who have given it a fair trial:

"1. In place of an out-door recess of fifteen or twenty minutes, the pupils are given thirty minutes of time at the close of the morning session for out-door freedom, and during the session one or more brief intervals of lively calisthenic exercises, in good air, and all under the superintendence of the teacher. Individual recesses are also allowed without restraint.

"2. The danger of bodily injury from the rude sports of children, and the frequent colds contracted by out-door exposure, which occasions so much irregularity of attendance, are avoided. In this respect a lessening of ill health is claimed. Many physicians whose children attend the public schools with no recess, do not object to the plan when conducted with proper limitations. The same is true in some places where physicians are members of the School Board; and the president of the New York State Board of Health, a physician, is quoted as saying that by the abolition of the recess the health of school children would be improved.

"3. Many parents dread the danger of the moral contamination of their children by vicious pupils — an evil which cannot be fully checked in the school yard by any teacher. To this may be added the petty tyranny and the bullying of the strong over the weak and timid. In fear of these evils, many parents have not sent their children to the public schools. This objection is now removed, and has resulted in an increased attendance upon the schools.

"4. The discipline of the schools is greatly improved by avoiding those personal difficulties and quarrels which originate in the rough plays, the loud words, and loud manners of the recess. Such cases often call for the infliction of corporal punishment. Superintendent Ellis, of Rochester, thinks that 75 per cent. of this kind of discipline is now avoided. The pupils are more orderly and industrious.

"5. There is an actual gain of time for school work; the loss of time in preparation for the recess, and in bringing

pupils, after its excitements, into a state of composure proper for school work, being more than an offset for the difference of ten minutes between the length of the recess and the time, thirty minutes, taken from the session at its close. This results in more and better work.

"6. Family convenience is greatly promoted by closing at 11.30 o'clock A. M. It is claimed that the dinner hour of a majority of the patrons of the school is 12 o'clock; and by this arrangement pupils dine with their parents, and even assist, in many cases, in the preparation of the midday meal. In all schools there is more or less importunity for children to be excused at 11.30 A. M., to carry dinners to fathers and brothers working at great distances from home. Superintendent Cole of Albany says that formerly 500 children, upon the average, were excused daily in the schools of that city, for this purpose. This, of course, is always a loss of schooling to the children, keeping them constantly in arrears in their work, and is also a serious drag upon classes in the whole school. Many parents also wish their children excused at about 3.30 p. m. to take lessons in music, dancing, etc. The early closing of the afternoon session, allowable by the change of hours, meets all such cases. (To meet the cases arising from the latter causes, the afternoon session began at 1.30 P. M. and closed at 3.30 P. M.)

"7. Teachers are relieved from a great amount of police duty necessary at recess, and the administration of the school is much simplified.

"8. To the argument, sometimes advanced, that it is beneficial for children of all classes and conditions to meet together upon a common level, it may be replied that the school room is a better place to secure the influence needed in that respect, where the contest is not, as in the school yard, one of physical strength and boisterousness, but one of mind and character; a contest that does much to prepare children and youth for good citizenship."

There were 11,423 cases of dismissal reported in the schools last year; there were many others not reported that occurred prior to April, as the present method of reporting them was not in operation and many were not recorded. A great majority were due to causes stated above.

There should be, of course, but one object in abandoning recesses and shortening the sessions, and that, the ultimate good of the pupils. There seems to be enough testimony in its favor to warrant at least a fair investigation and trial.

CONCLUSION.

Whatsoever may be the shortcomings of the schools, there can be no question as to their general efficiency and worth.

The standard of teaching grows constantly higher, the influences emanating from the school room, better and broader. The range of the instruction is constantly widening, and the methods of imparting it are becoming more scientific and more philosophical. The aim of the training is to inculcate in the pupils such habits as will form their characters aright and qualify them to exercise in the future the prerogatives of citizenship with a due appreciation of their moral obligations. But the schools cannot perform the obligations of the home and the church as well as their own. Each has its own functions, its own duties; yet one is led at times to think that the schools are responsible for them all.

To the teachers of the city, upon whose character and scholarship the fame of the schools must depend, I wish to express my sincere thanks for their cordial support and coöperation in my labors.

Respectfully submitted.

WM. E. HATCH,

Superintendent of Schools.

List of Teachers.

HIGH SCHOOL.

	Residences.	Salaries.
Ray Greene Huling,	195 Cottage street,	$2500
Charles T. Bonney, Jr.,	93 School "	1600
Charles R. Allen,	1 Lincoln "	1300
Sarah D. Ottiwell,	74 Kempton "	900
Elizabeth P. Briggs,	100 Hillman "	900
Lydia J. Cranston,	81 North "	900
Mary E. Austin,	214 Kempton "	900
Lucretia N. Smith,	72 Foster "	900
Emma H. Wheeler,	2 Mt. Vernon "	700
Emma K. Shaw,	72 High "	700
Mabel Washburn,	10 Maple street,	$8 per week.

GRAMMAR SCHOOLS.

FIFTH STREET:

Allen F. Wood,	111 Acushnet avenue,	$1800
Mary A. Kane,	128 Grinnell street,	550
Sarah A. Carr,	56 Spring "	550
Sarah E. Stoddard,	352 County "	550
Mary E. Allen,	25 Madison "	550
Lydia A. Macreading,	17 Bonney "	550
Lizzie B. Brightman,	54 Fourth "	550
Helen L. Hadley,	196 Grinnell "	550
Jeannette Hunter,	55 North Sixth "	550
Helena Kennedy,	139 Acushnet ave.,	525
Sarah W. Almy,	Rockdale ave.,	550
Lena A. Chubbuck,	148 Purchase street,	500

MIDDLE STREET:

	Residences.	Salaries.
George H. Tripp,	Fairhaven,	$1800
Katharine Commerford,	634 County street,	550
Mary R. Hinckley,	111 High "	550
Agnes J. Dunlap,	117 Hillman "	550
Clara S. Vincent,	233 Middle "	550
Hattie F. Hart,	233 Acushnet ave.,	550
Mabel W. Cleveland,	51 Summer street,	550
Lucy B. Fish,	64 Smith "	550
Clara B. Watson,	37 Fifth "	550
Maria B. Clark,	131 Chestnut "	525

PARKER STREET:

Charles E. E. Mosher,	92 High street,	1800
Eliza J. D. Shepherd,	5 Lincoln "	550
Martha A. Hemenway,	5 Lincoln "	550
Helen M. Gordon,	11 Franklin "	550
Sarah L. Spare,	5 Arch "	550
S. Flora Spare,	5 Arch "	550
Anna L. Jennings,	115 Maxfield "	550
Emma A. McAfee,	72 School "	550
Annie W. Braley,	619 County "	550
Josephine Almy,	201 Cottage "	550
Emma C. Nash,	1121 Acushnet ave.,	550
May L. Pettey,	22 Pope street,	475
Mary E. Sturtevant,	22 Parker "	500
Lizzie E. Omey,	63 Thomas "	400

THOMPSON STREET:

Katharine N. Lapham,	42 North Second street,	700
Mary A. Macy,	72 Bedford "	550
Abby F. Sullivan,	230 County "	550
Chella F. Carpenter,	2 Grape "	450

PRIMARY SCHOOLS.

THOMPSON STREET:

	Residences.	Salaries.
Helen C. Allen,	173 Grinnell	street, $525
Annie C. O'Connor,	299 County	" 475
Helen J. Kirk,	27 Franklin	" 475
Grace H. Potter,	4 Orchard	" 450
Sarah A. Winslow,	315 County street, $8 per week.	

LINDEN STREET:

Elizabeth P. Spooner,	129 Hillman	street, $550
Lucy S. Leach,	91 Maxfield	" 475
Isabella Luscomb,	245 Cedar	" 475
Isadora Foster,	48 Parker	" 475

MERRIMAC STREET:

Sarah H. Hewins,	111 Merrimac	street, 550
Addie West,	232 Pleasant	" 475
Hattie S. Damon,	78 Hillman	" 450

MAXFIELD STREET:

Mary B. White,	57 Foster	street, 550
Sarah E. Field,	240 Middle	" 475
Annie E. Pearce,	151 Hillman	" 475
Bessie P. Nash,	1121 Acushnet ave.,	475

CEDAR STREET:

Annie S. Homer,	117 Hillman	street, 550
Abby D. Whitney,	59 Hill	" 475
Emma B. Allen,	Cor. Morgan and Cottage streets,	475
Willetta B. Nickerson,	46 State	street, 475
Annie L. Edwards,	62 North	" 450

ACUSHNET AVENUE:

	Residences.	Salaries.
Jane E. Gilmore,	245 Acushnet ave.,	$550
Sarah E. Kirwin,	101 South Sixth street,	475
Susan M. Lucas,	North "	475
Mariana N. Richmond,	34 High "	475
Emma B. McCullough,	300 Purchase "	400
Carrie S. Silva,	81 Washington "	400

KEMPTON STREET:

Eleanor Commerford,	634 County street,	550
Bessie P. Peirce,	1 Court "	475
Kate Cleary,	61 Mechanics Lane,	475
Ida G. Howard,	15 Morgan street,	475

WILLIAM STREET:

Nancy H. Brooks,	135 Fourth street,	500
Amelia Lincoln,	87 Walden "	475
Mary J. Graham,	12 Court "	475
Clara C. M. Gage,	78 Mill "	450

FOURTH STREET:

Sarah H. Cranston,	81 North street,	550
Eliza H. Sanford,	76 Fifth "	475
Sarah E. Sears,	21 Griffin "	475
Annie L. Macreading,	17 Bonney "	425
Alice A. Taylor,	299 County street,	$8 per week.

DARTMOUTH STREET:

Isadore F. Eldridge,	28 Sherman street,	$550
M. Eva Schwall,	11 Bonney "	475
Sara H. Kelley,	24 Seventh "	475
Annie M. Carpenter,	2 Grape "	475

GROVE:

	Residences.	Salaries.
Jane C. Thompson,	194 County street,	$550
Sarah E. Tuell,	1046 South Water "	475
Hattie L. Finlan,	186 County "	475
Nellie W. Davis,	49 Bedford "	475
Mary Barstow,	South Orchard "	400

CEDAR GROVE STREET:

Lucy F. Clark,	131 Chestnut street,	550
Carrie A. Shaw,	Belleville road,	450
Flora E. Estes,	535 Purchase street,	450
Emily A. Delano,	464 County "	425
Annie G. Brawley,	23 Washburn st., $8 per week.	

ARNOLD STREET:

Susan M. Tompkins,	2 Court street,	$575

COUNTRY SCHOOLS.

ACUSHNET:

Charlotte C. Carr,	56 Spring street,	700
Belle B. Wheeler,	2 Mount Vernon "	375
Lucy D. Ashley,	Long Plain, $8 per week.	

CANNONVILLE:

Addie J. McFarlin,	152 Kempton street,	$500
Lillie C. Tillinghast,	Cor. Middle and Pleasant streets,	400

CLARK'S POINT:

Mary E. Pasho,	169 Grinnell st., $8 per week.	

NORTH:

Mary Ashley,	Clifford,	$550

ROCKDALE:

	Residences.	Salaries.
Susan C. Graffam,	280 Acushnet avenue,	$425
Alice P. Terry,	Hathaway road,	$8 per week.

PLAINVILLE:

Mary Chace,	Hathaway road,	$475

MILL SCHOOLS:

NORTH MILL:

Emma R. Wentworth,	117 Hillman street,	$15.50 per week.

SOUTH MILL:

Lucy J. Remington,	493 County st.,	$15 per week.

DRAWING TEACHERS.

Arthur J. Cumming,	271 Union street,	$1650
Fannie E. Ashley,	Clifford,	400
Albert B. Drake,	Cor. School and Fourth streets,	$7 per week.
George A. Stetson,	99 Washington street,	$4 per week.

SINGING TEACHER.

Fred L. Diman,	165 Middle street,	$1500

SEWING TEACHERS.

Carrie H. Richmond,	33 Seventh street,	525
Eliza A. Smalley,	71 South Sixth "	225
Gertrude H. Leonard,	62 Fifth "	225

MILITARY INSTRUCTOR.

John K. McAfee,	72 School street,	300

EVENING SCHOOLS.

CEDAR GROVE STREET:

	Salaries.
Mrs. Ruby M. Tripp,	$12.50 per week.
Annie G. Brawley,	6.50 "
Myra Leach,	5.00 "
Grace Carver,	5.00 "
Rachel Denham,	5.00 "
Mrs. Sarah Bowen,	5.00 "
Grace Covell,	5.00 "
Franklin C. Tripp,	5.00 "
Annie L. Brownell,	5.00 "
Ellis L. Howland,	5.00 "
Nellie Cook,	6.00 "

PARKER STREET:

Nathaniel W. Gifford,	12.00 per week.
Sara L. Tallman,	7.00 "
Lillie C. Tillinghast,	7.00 "
Abby R. Johnson,	6.50 "
Annie B. Parker,	5.50 "
Ida A. McAfee,	5.50 "
Mrs. M. F. Wilde,	6.50 "
Lizzie E. Omey,	6.50 "
Lucy Ashley,	5.00 "
Kate Sweet,	7.00 "
Anna I. Dexter,	5.00 "

MERRIMAC STREET:

Joseph P. Kennedy,	12.00 per week.
Edmond L. Wilde,	5.00 "
Eugenie Paull,	5.00 "
Edith K. Weeden,	5.00 "

CENTRAL—ON HIGH STREET:

	Salaries.
Mrs. S. W. Wilde,	$12.00 per week.
Cora Cleveland,	7.00 "

FIFTH STREET:

Oliver W. Cobb,	15.00 per week.
Mrs. S. C. Whelden,	8.00 "
Mrs. C. T. Johnson,	7.00 "
Mary G. Bonney,	7.00 "
Mary Crowell,	6.50 "
Alice M. Holdsworth,	5.50 "
Sarah A. Winslow,	5.50 "
Lena Hamblin,	5.00 "
Harriet S. Gardner,	5.00 "
Julia Fay,	5.00 "
Annie F. Smith,	5.00 "
Alice A. Taylor,	5.00 "

DEPARTMENT OF PUBLIC SCHOOLS.

Report for Year Beginning January 9th, Ending December 22, 1888.

	NAME OF SCHOOL.	Total Enrollment for Year.		Average No. Belonging.	Av. Daily Attendance.	Per cent. of Attendance.	Total half days' Absence.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Truancy.	Half days Teacher was Absent.	Times Teacher was Tardy.	No. Visits by Superintend't.	No. Visits by Members Committee.
		Boys.	Girls.											
1	High,	186	280	329	311	.94	3,278	674	1,733	4	53	28	17	77
2	Fifth St. Grammar,	249	321	444	420	.95	9,462	1,455	1,112	13	103	8	43	34
3	Middle St. Grammar,	194	221	361	338	.93	8,275	838	1,654	60	27	13	39	41
4	Parker St. Grammar,	362	362	494	444	.89	12,894	2,634	1,356	40	10	1	47	42
5	Thompson St. Grammar,	97	76	148	137	.90	4,076	430	760	19	10	22	22	26
6	Acushnet Ave. Primary,	161	152	233	214	.90	6,528	601	142	9	66	4	12	8
7	Cedar St. Primary,	94	128	190	174	.90	5,607	274	197	4	113	9	15	9
8	Cedar Grove St. Primary,	119	111	141	126	.89	4,895	209	1,060	16	86	3	11	18
9	Dartmouth St. Primary,	80	92	142	131	.92	3,354	313	257	19	56	43	24	20
10	Fourth St. Primary,	109	106	185	166	.89	6,472	873	302	2	9	4	17	8
11	Grove Primary,	164	144	169	153	.90	5,643	1,014	749	1	15	1	12	4
12	Kempton St. Primary,	104	88	159	143	.89	4,431	390	178	3			9	12
13	Linden St. Primary,	86	83	114	106	.93	2,840	351	193	2	1	1	8	15
14	Merrimac St. Primary,	56	55	91	83	.91	3,117	330	123	20	5	2	12	12
15	Maxfield St. Primary,	67	77	129	121	.93	3,209	464	262	6	13	3	16	6
16	Thompson St. Primary,	118	107	180	158	.87	7,799	675	524	28	6	8	17	18
17	William St. Primary,	84	96	119	108	.90	5,910	496	155	11		2	11	16
18	Arnold St. Primary,	26	31	31	28	.90	717	47	36	2		1	2	
19	Acushnet,	53	57	81	74	.91	2,909	272	144		29		15	13
20	Cannonville,	52	58	79	71	.89	2,762	530	89		2	1	4	6
21	Clark's Point,	10	7	16	13	.81	1,353	83	19	2	2	1	3	9
22	North,	23	15	30	29	.96	917	39	16	1			2	1
23	Rockdale,	19	24	37	31	.83	2,061	85	35		13		4	8
24	Plainville,	18	15	23	20	.86	1,538	213	26	1	2		3	3
25	North Mill,	90	41	34	28	.82	1,376	321	85	6	34	1	5	12
26	South Mill,	69	40	29	25	.86	1,170	168	216	1	20		5	5
	Totals,	2690	2787	3988	3652	.91	112,593	13,779	11,423	270	675	156	375	423

1889—CITY DOCUMENT No. 7.

TENTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

FOR THE YEAR 1888.

NEW BEDFORD:
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1889.

REPORT.

City of New Bedford,
Office of the Board of Health,
January 31, 1889.

To the City Council:

Gentlemen,—The Board of Health herewith respectfully make their Tenth Annual Report.

The Board organized February 6, 1888, as follows: Nathaniel Hathaway, Chairman; T. Washburn Cook; William N. Swift, Physician to the Board and Quarantine Physician; the Board also appointed William E. Macomber, Health Inspector, and employed George G. Cassidy, Special Agent.

The following are the orders passed by the Board during the year 1888:

February 13, 1888. *Ordered*, That no apparatus shall be used in the work of removal of the contents of privy vaults or cesspools unless the same shall have been examined every three months and approved by the Board of Health. Each person holding a license to empty privy vaults or cesspools shall report on Saturday of each week to the Board of Health the ownership and location of the privy vaults and cesspools he shall have emptied during that week.

The Board believes that the enforcement of the above order has reduced the nuisance caused by the removal of night soil to a minimum, and also that the method employed is satisfactory under the conditions imposed by this order.

February 28, 1888. *Ordered*, That the boundaries of the limits within which all rules and regulations now in force or which may hereafter be established in relation to the removal of the contents of privy vaults or cesspools shall be operative and binding. Commencing at the Acushnet river at the eastern termination of that part of Belleville road that runs easterly from the Acushnet avenue nearest to the Nash road; thence on said Belleville road to Acushnet avenue; thence southerly on said avenue to the Nash road; thence on the Nash road to the Perry Neck road; thence on Perry Neck road to Hathaway road; thence westerly on said Hathaway road to Shawmut avenue; then southerly on said Shawmut avenue to Durfee street; thence westerly on Durfee street to Rockdale avenue; thence southerly on Rockdale avenue to Kempton street; thence westerly on Kempton street to Dartmouth line; thence on Dartmouth line to Clark's Cove.

April 27, 1888. *Ordered*, That all vessels arriving at this port from foreign ports between the first day of May and the first day of November, 1888, go into quarantine, and remain until visited by the Quarantine Physician and by him allowed to enter the upper harbor. All pilots are required to be governed by this order.

May 29, 1888. The Board of Health hereby call the attention of the public to the following orders passed this day and to take effect on and after June 11, 1888.

Rules and Regulations of the Board of Health of the City of New Bedford on plumbing and drainage, to be enforced by the Agent for the Inspection of Plumbing.

Rule 1. Every tenement shall be provided with a suitable water-tight privy vault, or with a water closet connected with a water-tight underground drain of proper size to carry off the contents, and with a similar drain to carry off the waste water to a cesspool or sewer.

b. Every privy vault or cesspool shall be built in a thorough and substantial manner, and located so that the inside of the same shall be at least two feet distant from the line of any adjoining lot or street. Cesspools must be of sufficient size to contain at least eighty cubic feet, eighteen inches below the surface of the ground, and, when not water-tight, must be at least twenty feet from the cellar wall of any tenement or dwelling, and two rods distant from any well, spring, or other source of water supply used for culinary purposes.

Rule 2. Unless the Board of Health shall permit otherwise, the drainage system of a hotel, tenement house, dwelling house, stable with sleeping apartments, store, or factory in the city of New Bedford, Massachusetts, shall be constructed as follows:

Section 1—*Filing Plans and Specifications.* No person shall proceed to construct, add to, or alter any portion of the drainage system of said buildings (except to repair leaks) until they have filed at the office of the Board of Health, upon blanks in such form as the Board of Health shall order, a notice of the work to be performed. No person shall commence work on such drainage or plumbing until the plans are approved by the Board of Health. Plans and specifications will be approved or rejected within five days of the time of filing. After a plan has once been approved no alteration of the same will be allowed except on a written application of the owner.

Section 2—*Notice.* The Board of Health must be notified when any work is ready for inspection, and all work must be left uncovered and convenient for examination until inspected and approved.

Section 3—*Inspection.* All plumbing work in new buildings or new work in old buildings, shall be tested by the Board of Health, with the hydraulic or such other test as the Board may direct; and in case the work does not stand the test, and the same is not repaired within ten days, the water shall be turned off, by order of said Board, and not let on again till the plumbing has been pronounced satisfactory by the said Board.

Section 4—*Main Drain.* Every building herein referred to shall be separately and independently connected with a common sewer or cesspool.

That portion of the house drain which is outside of the building, and more than four (4) feet from the foundation walls, shall be constructed of extra heavy cast iron soil pipe or of the best quality vitrified drain pipe.

That portion of the house drain which is inside the walls, or under the building, and that portion outside of the building and within four feet of the foundation wall, must be of iron pipe with a fall of at least one half (1-2) inch to the foot. It must run along the cellar wall, and be securely fastened thereto, or suspended from the floor timbers in iron hangers.

When impracticable, it shall be laid in a trench, beneath the basement or cellar floor, provided with movable covers and walled up of such a width as to admit of access to all joints.

When a water closet is to be put in an old house and the house drain is of cement or vitrified pipe, the same must be replaced by iron pipe and vented same as new work.

Section 5—*Traps.* The house drain must have a trap located beyond all house connections, of the same size as the drain.

Section 6—*Fresh Air Inlets.* There must be a fresh air inlet pipe entering the drain on the house side of the main trap, of not less than four inches internal diameter, extending therefrom to the external air.

Section 7—*Soil Pipe.* All pipes receiving the discharge from water closets must be of iron at least four (4) inches internal diameter, and continued of undiminished size at least two (2) feet above the roof, away from all windows, and left open at the top.

Section 8—*Branches.* All branches over ten feet in length must be continued of undiminished size to the roof, and carried up at least four inches internal diameter through the roof, and project at least two feet above it and left open.

Section 9—*Connections.* All connections with horizontal pipes shall be made by $\frac{1}{8}$ bends and Y branches, and all changes in direction shall be by curved pipe. No trap shall be placed at the foot of a vertical soil pipe.

Section 10.—*Waste Pipes.* All waste pipes from sinks, basins, bath tubs, wash tubs, etc., of two inches or less internal diameter, shall be of lead; all over two inches must be of iron.

Section 11.—*Rain Water Conductors.* Whenever rain water conductors are connected with any pipe of the drainage system of the house, that portion within the house or under ground, or five feet above the ground, to be of cast iron pipe with lead joints, and in all cases provided with an extra deep trap where it enters the house drain. No rain water conductor shall be used as a soil pipe.

Section 12—*Traps.* Every pipe connecting a water closet with the soil pipe must be trapped close to the connection with the water closet. Every waste pipe must be trapped close to the fixture and separately from any water closet.

Section 13—*Safe Wastes.* All waste pipes from safes underfixtures must be run separately to basement or cellar,

and left open; in no case must they be connected with the soil pipe or any other waste pipe.

Section 14—*Refrigerator Wastes.* No waste pipe from a refrigerator or other receptacle in which food or provisions are stored shall be connected with a drain, soil, or other waste pipe, but must be separated therefrom by an open sink or tray furnished with a trap.

Section 15—*Tank Overflow.* All overflow pipes from tanks must be left open and in sight. In no case shall it run into a soil or waste pipe.

Section 16—*Ventilation of Traps.* All traps must be furnished with a vent pipe run from the crown of the trap. The vent pipe from a water closet trap must be at least two inches in diameter; other vent pipes must be as large as the waste pipe from the trap. All ventilation pipes from a soil or waste pipe must run, of undiminished size, separately or combined together, to the roof and carried up at least four inches, internal diameter, through the roof and at least two feet above it, and left open, or may be run into a soil pipe above all connections. In no case shall a soil, waste, or ventilating pipe from a soil or waste pipe be connected with a chimney. No brick, earthenware, or sheet metal pipes shall be used for ventilation pipes from a soil or waste pipe.

Section 17—*Cast Iron Pipes.* All cast iron pipes must be free from holes and other defects, of a uniform thickness of not less than 1-8 inch for a diameter of four inches or less, and not less than 5-32 of an inch for 5 and 6-inch pipe, and shall have the full weight of the following table for the corresponding diameters:

Internal Diameter.	Ordinary Pipe.	Extra Heavy Pipe.
2 inches.	3½ lb. per ft.	5½ lb. per ft.
3 "	4½ " " "	9½ " " "
4 "	6½ " " "	13 " " "
5 "	8 " " "	17 " " "
6 "	10 " " "	20 " " "

And before being connected shall be thoroughly coated inside and out with coal tar pitch, applied hot by immersion, or some equivalent substance satisfactory to the city engineer.

Section 18—*Quality of Joints.* Every joint in earthen pipe shall be made in hydraulic cement, care being taken that the inside of the joints and of the pipe is properly cleaned out before connection is made with the house. Every joint in lead pipe shall be made of solder, and wiped joints are to be used where practicable. Every joint of an iron and a lead pipe shall be made by a brass ferrule of same size as lead pipe, set in the hub of the branch of the iron pipe, and caulked with lead; the lead pipe to be attached to the ferrule by a wiped solder joint. Every joint in a cast iron bell and spiggot pipe to be used with packed oakum and molten lead well caulked, at least 1½ inches deep, and made water and air-tight, and no paint or putty shall be allowed until tested. Where screw-joints are used, they shall be packed in red lead and made steam-tight.

Section 19—*Water Closet Supply.* No water closet shall be supplied directly from the house supply pipe, but shall be supplied from a special water tank or cistern used for no other purpose.

Rule 3. Whoever shall violate any provision of these rules shall be liable to a fine not exceeding one hundred dollars, and a like penalty for every day after the first that an offence shall be committed.

The above rules and regulations need but a few words of explanation. At the time of their passage the Board in no way considered them as an experiment. Such regulations have been in force for a number of years in other cities, and our city now enjoys the benefits which surely follow such rules. These may be briefly stated as follows:

First. Each house is absolutely protected not only from the entrance of air from the main sewer, but also from the entrance of air from the pipes of its own drainage system, which is of equal or even more importance.

Second. The plan of the house drainage filed is useful, saving time and expense when alteration or extension of the house drainage is made.

Mr. Louis H. Richardson was appointed Inspector of Plumbing May 7, 1888. He assumed the duties of that position May 7, 1888. He is required to investigate the needs of all applications for a new system of domestic water supply and drainage; or for the remodelling of old work upon the execution of all plumbing work in accordance with the rules prescribed by the Board. He submits the same to a test, and reports upon the manner in which the work has been done. We submit the following extract from his report:

The plumbing and drainage of 95 new houses have been completed under my direction, and 101 old houses have received more or less attention. In some of the latter cases all the work within the house is entirely new, all old plumbing having been condemned. In other cases an attempt is simply made to improve upon the old work, which in some cases is really done, while in others the success of the experiment is doubtful. There is no doubt whatever but that the standard of work has been raised to a much higher point of excellence than has ever been before obtained in this community, and it is but fair to add that house owners are apt to be ignorant of existing defects, for, whenever such are called to their attention, with few exceptions they seem anxious to apply the needed remedy. While I report on about two hundred houses that have received examination during the past six months (and in these many a serious defect would have now existsd had not the test been applied), am led to reflect upon the condition of many of the 5000 houses within this community whose drainage has never received any examination whatever. I am convinced that there is an excellent chance for missionary work among these older supplies.

In August last complaint was made to the Board that Edward Vanasse had put plumbing in a house on First street, south of Delano, without first filing plans of the plumbing of said house at the office of the Board of Health; also that the plumbing was defective and not in conformity with the regulations.

A suit was brought against Edward Vanasse, and he was arrested on a warrant charging him with violating the rules of the Board of Health, by not filing at the office of the Board of Health plans of the plumbing in the house he was building before beginning the work.

Judgment was rendered in favor of the Board of Health, and the defendant was fined.

The judge stated in giving his decision that he considered the suit a test case as to whether the plumbing regulations (as adopted by the Board of Health) were legal and could be enforced. He said that filing the plans before the work was begun was essential to the enforcement of the rules, as otherwise it would be impossible for the Board of Health to decide whether the work was being done in a proper manner.

June 8, 1888. Notice to fishermen and others. All persons are hereby forbidden depositing dead animals, fish, or house offal in the docks, or on the wharves of the city, under penalty of the law. Per order Board of Health.

June 1, 1888. Whenever the Board of Health shall be of the opinion that any privy vault or cesspool from its location is a nuisance, source of filth, or cause of sickness, the Board of Health may abate such nuisance, source of filth, or cause of sickness, by the removal or destruction of said privy vault or cesspool.

The Board consider the laws of nuisances caused by the privy vaults and cesspools the worst existing to-day in our city, and such nuisances have been abated in the past whenever a complaint received has been considered just by

the Board. By abating this class of nuisances by the removal of the cause and preventing the building of new vaults, etc., the board intend to give the public no cause for complaint from this source.

The number of privies removed during the year 1888 by order of the Board was 11.

Following are the permits granted by the Board:

Number of permits given to empty vaults and cesspools, 62.

Number of persons licensed to do this work, 11.

Permits given to enter sewers, 238.

Permits given for re-interment of bodies, 72.

January 31, 1888. The report of the Health Inspector, William E. Macomber, was received and ordered placed on file.

Number of nuisances abated during the year 1888, 552, viz.:

Privies and vaults, 259.
Sink drains, 65.
Cesspools, 31.
Filthy premises, 66.
Filthy water closets, 26.
Pig pen nuisances, 21.
Hen yard nuisances, 33.
Sand catchers, 14.
Stagnant water, 16.
Dead animals removed, 13.
Number of notices served, 109.

It seems necessary to supplement this report, as it in no way represents the amount of work accomplished by the Board in the way of abating nuisances.

It has not been customary to record nuisances which have come to light in the regular quarterly inspection of the city and which have been abated by the owners or tenants of the property without official action of the Board.

This class of nuisances without doubt number several hundred.

Complaints, which on investigation were found without foundation, have not been recorded as such, the custom having been to notify parties making complaint that no action would be taken.

In the middle of April last, as a number of cases of diphtheria occurred among children attending the Parker street school, the following letter was addressed to the School Committee. The Board herewith acknowledge the prompt attention with which the suggestions offered in communication made by the School Committee.

APRIL 13, 1888.

SCHOOL COMMITTEE, CITY OF NEW BEDFORD.

Gentlemen:

We feel that it is our duty to place this expression of our opinion before you, owing to the prevalence of contagious disease in the city. We have made an examination of the Parker street school house, and find that the cellar is improperly drained, and its condition, if not a direct cause of disease, must aggravate any existing cause.

We also condemn the practice of holding evening schools in rooms intended for the daily use of young children, for it seems impossible to thoroughly ventilate and properly care for their cleanliness.

We advise that all rooms and buildings that have been used as evening schools be fumigated during the coming vacation.

Very respectfully,

BOARD OF HEALTH,
NATH. HATHAWAY,
Chairman.

On October 20, 1888, owing to the prevalence of spinal meningitis, the Board employed Dr. W. H. Hornblower to investigate the matter. He submitted the following report:

MR. NATHANIEL HATHAWAY,
CHAIRMAN BOARD OF HEALTH.

Sir:

I have the honor to submit the following report of investigation made by me into the nature and character of the so-called "new horse disease," said to exist in this vicinity.

This day I visited a livery stable of I. Ashley, and found from inquiry,

that in the past week eleven horses had been taken with symptons more or less alike; of these eleven, four had died and two had been destroyed, as it was thought there was no chance for their recovery.

The remaining five horses I saw and examined and found them suffering from euzoötic spinal meningitis, an infectious disease. The history I got led one to believe that some of those which died or were destroyed had had euzoötic cerebro-spinal meningitis, probably caused by the taking away of the 83 years old stone wall and decayed wood work at the north end of the stable, and bad, wet weather, with northeasterly winds, which prevailed for some time previous to the outbreak of the disease.

Respectfully yours,
W. H. HORNBLOWER.

New Bedford, October 18, 1888.

This report was submitted to the Cattle Commissioners, who thought no further action necessary.

Oct. 22, 1888. The following letter addressed to Cattle Commissioners:

Mr. A. W. Cheever,
Secretary of Cattle Commissioners, Dedham, Mass.

Dear Sir:

Since our communication of the 20th and your reply of the 22d, a number of new cases of spinal meningitis have made their appearance in different locations other than Ashley's stable, where it first came to notice, and also a severe case of glanders has made its appearance. The horse has been securely isolated and all precautions necessary taken to prevent its spreading. In view of the number of cases of sickness now existing among horses in this city, and the uneasiness and apprehension among our people lest it assume still greater proportions, it would seem desirous that your Commission should visit New Bedford and make some investigation yourselves.

Yours very respectfully,
NATHANIEL HATHAWAY,
Chairman.

The horse mentioned in the foregoing letter was placed in the care of Dr. Hornblower, by order of the Board.

October 30, 1888. The Cattle Commissioners visited this city and ordered the animal to be destroyed.

The following letter is self-explanatory:

FEBRUARY 27, 1888.

TO HIS HONOR THE MAYOR AND BOARD OF ALDERMEN.

Gentlemen:

We would most respectfully call your attention to the condition of the Elm street sewer, which in our opinion is bad in the following respects: The outlet is so situated that the accumulation of solid matter cannot be easily removed; at Water street the sewer is deflected to carry it through Hazard street; at County street there is a dead end; and, finally, the character of the sewage is such that large quantities of gas are evolved from it. These conditions combined render the sewer a nuisance to the abutters, who find it impossible to prevent the sewer gas from entering houses. We therefore respectfully urge the necessity of ventilating said sewer by man-holes in the street, and so relieve the pressure of gas on the house traps along the line of said sewer.

Yours very respectfully,

NATHANIEL HATHAWAY,
WILLIAM N. SWIFT, M. D.,
THOMAS W. COOK,
} Board of Health.

Action on the foregoing recommendations was at once taken by the city, ventilators being placed in the Elm street sewer at County street, Sixth street, Purchase street, and Second street. No further complaint has been made of said sewer. The Board strongly recommend a systematic ventilation of all the sewers by the same method used for the Elm street sewer, and regard such ventilation as absolutely necessary to the safety of the public.

Respectfully submitted.

NATHANIEL HATHAWAY,
Chairman.

REPORT OF THE CITY PHYSICIAN.

DEATHS REPORTED TO THE BOARD OF HEALTH FOR THE YEAR 1888.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Abscess of pelvis	..	..	..	..	..	..	..	..	1	..	..	..	1
Abscess of ear	..	..	..	..	..	..	1	..	..	..	.	..	1
Accident	1	..	..	..	..	..	..	..	..	..	1	..	2
Aneurism	..	..	..	..	1	1	..	..	..	..	..	..	2
Apoplexy	5	4	3	3	3	3	1	4	4	4	3	3	40
Asthenia	..	..	..	..	..	..	1	..	3	2	..	..	6
Atalectasis	..	..	..	..	..	1	..	2	1	..	..	..	4
Anæmia	..	..	..	1	..	..	1	..	..	..	..	..	2
Alcoholism	..	1	..	..	..	..	..	..	..	..	..	..	1
Bright's disease	..	..	2	2	2	6	2	1	..	2	3	1	21
Burns	..	..	..	..	..	..	..	..	..	..	1	..	1
Bronchitis	1	1	4	1	1	..	1	..	1	1	..	..	11
Bronchitis, chronic	..	..	..	1	..	..	..	1	..	1	..	..	3
Bronchitis, capillary	1	..	2	2	2	1	..	..	..	..	..	..	8
Cancer	1	1	2	..	1	2	..	5	2	1	..	2	17
Cancer of prostate	..	..	1	..	..	..	..	..	..	..	..	..	1
Cancer of uterus	..	..	1	1	..	..	..	..	..	..	1	..	3
Cancer of stomach	..	..	..	1	1	1	1	..	1	2	..	..	7
Cancer of face	..	..	..	..	1	..	..	..	..	..	..	..	1
Cancer of liver	..	..	..	..	1	..	..	..	1	..	..	..	2
Cirrhosis of liver	..	..	1	..	..	..	..	..	..	..	..	1	2
Cholera infantum	..	..	..	..	..	..	10	13	7	1	..	..	31
Cholera morbus	..	..	..	..	..	1	..	2	..	..	..	..	3
Congestion of brain	..	..	..	1	..	..	..	1	..	..	..	..	2
Convulsions, infantile	3	2	2	3	3	..	..	2	3	..	2	1	21
Convulsions, puerperal	1	..	..	..	..	..	..	..	..	..	..	..	1
Croup	2	..	5	1	..	1	..	..	1	2	..	1	13
Cystitis	1	2	..	..	..	1	..	..	..	..	1	..	5
Debility	2	..	3	4	2	..	3	2	3	1	..	3	23
Diabetes, mel.	..	..	..	..	1	..	..	..	..	..	..	..	1
Diphtheria	7	..	4	9	6	2	..	..	..	3	3	3	37
Disease of brain	..	..	..	1	..	1	..	..	..	..	..	..	2
Disease of heart	7	6	3	5	5	4	4	6	1	5	6	6	58
Disease of liver	..	..	..	..	..	..	..	1	..	..	..	..	1
Disease of kidneys	..	2	..	..	..	..	..	1	2	1	..	..	6
Disease of stomach	..	..	1	..	..	..	..	1	..	..	..	..	2
Drowned	..	..	..	..	..	..	1	..	..	..	..	1	2
Dysentery	..	..	..	..	1	..	..	..	..	..	..	..	1
Enteritis	..	..	1	1	..	..	2	7	..	1	..	1	13
Entero-colitis	..	..	..	..	2	..	5	12	8	2	1	..	30
Erysipelas	..	..	1	..	..	..	..	..	..	..	..	..	1
Fever, brain	1	..	..	..	1	1	..	..	..	..	..	..	3
Fever, puerperal	..	..	1	..	..	..	..	..	..	..	..	..	1
Fever, scarlatina	..	..	1	3	..	..	..	..	1	..	1	6
Fever, typhoid	..	1	..	..	..	..	1	..	2	2	2	..	8
Fracture of skull	1	..	..	..	..	..	1	..	..	1	..	2	5

DEATHS REPORTED—*Continued.*

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Fistula, perineal	1	..	..	..	..	..	..	..	..	..	..	..	1
Gangrene, senile	..	1	..	..	2	..	..	..	..	..	..	..	3
Gastro enteritis	..	..	..	..	..	1	5	7	3	..	1	1	18
Gastritis	2	..	..	..	..	..	..	..	1	..	..	..	3
Gangrene of lungs	..	..	..	..	..	1	..	..	..	..	..	..	1
Hernia	..	..	..	..	..	..	..	..	..	..	1	..	1
Hemorrhage	..	1	..	..	..	1	..	..	..	..	..	..	2
Hemorrhage from umbilical cord	..	1	..	..	..	..	..	..	..	..	..	..	1
Hemorrhage from lungs	..	..	..	1	..	..	..	1	..	..	..	..	2
Hydrocephalus	1	1	1	..	1	..	..	..	1	..	..	..	5
Heat exhaustion	..	..	..	..	..	..	..	1	..	..	..	..	1
Insanity	..	..	..	..	..	..	..	1	..	..	1	..	2
Intestinal obstruction	..	..	..	..	..	..	..	..	..	1	..	1	2
Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	1	1
Marasmus	..	1	..	..	..	..	..	..	2	2	1	2	8
Meningitis	..	3	1	3	1	..	1	1	2	3	..	..	15
Meningitis, tubercular	2	1	1	2	..	4	2	3	3	..	..	1	19
Old age	1	5	1	2	1	3	..	..	2	4	6	..	25
Œdema of glottis	..	..	..	..	..	1	..	..	..	..	..	..	1
Paralysis	2	2	1	2	4	4	1	3	2	..	4	2	27
Pleurisy	..	..	..	..	..	..	1	..	..	..	..	..	1
Pneumonia	6	2	8	6	4	..	1	..	1	2	..	2	32
Pneumonia, broncho	..	..	2	2	..	..	..	..	..	..	..	1	5
Premature birth	..	1	1	1	..	..	1	1	..	..	..	..	5
Phthisis, pul	7	3	11	8	2	6	7	3	5	8	8	7	75
Peritonitis	1	..	1	3	2	3	..	1	..	1	1	..	13
Poisoning, arsenic	..	..	1	..	..	..	..	..	..	..	..	..	1
Poisoning, chloroform	..	..	..	..	..	1	..	..	..	..	..	..	1
Poisoning, opium	..	..	..	..	..	..	1	..	..	..	..	..	1
Pyæmia	1	2	..	..	1	..	1	..	..	..	..	..	5
Locomotor ataxia	1	..	..	..	..	..	..	..	..	..	..	..	1
Rheumatism	..	..	..	..	..	..	..	..	1	1	..	..	2
Septicæmia	1	..	..	..	..	..	..	..	2	3	..	..	6
Suffocation	1	..	..	..	..	1	1	..	1	..	1	..	5
Suicide	..	..	..	..	..	..	..	..	1	..	1	..	2
Syphilis	..	..	..	..	1	..	..	..	..	..	..	..	1
Septicæmia, puer.	..	..	..	..	..	1	1	..	..	..	1	..	3
Spinal sclerosis	..	..	..	..	1	..	..	..	..	..	..	..	1
Spina bifida	..	..	..	..	..	1	..	..	..	1	..	..	2
Tumor, ovarian	..	..	..	1	..	..	..	..	..	..	1	..	2
Tuberculosis	..	..	..	2	1	1	..	1	..	3	..	1	9
Tumor of brain	..	..	..	..	..	1	..	1	..	..	..	..	2
Tumor of uterus (fibroid)	..	..	..	..	..	..	..	..	1	..	..	..	1
Uræmia	..	..	1	..	1	..	..	..	1	..	1	..	4
Ulcer of stomach	..	..	..	..	..	..	..	..	1	..	..	..	1
Volvulus	..	..	..	..	..	..	..	..	..	..	1	..	1
Whooping cough	..	1	..	..	..	..	..	..	..	..	..	..	1
Totals,	61	45	68	73	56	56	58	85	69	63	53	46	733
Stillborn,	4	2	3	1	5	4	5	7	3	5	5	3	47

CASES OF CONTAGIOUS DISEASES.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Diphtheria	17	9	6	23	22	11	3	4	..	10	12	8	125
Scarlatina	13	3	7	10	8	3	2	..	3	7	9	5	60
Typhoid fever	1	1	..	4	..	..	2	4	11	19	15	9	66

DEATHS FROM CONTAGIOUS DISEASES.

DISEASES.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Diphtheria	7	..	4	9	6	2	.	..	..	3	3	3	37
Scarlatina	..	..	1	3	..	..	..	..	..	1	..	1	6
Typhoid fever	..	1	.	..	..	..	1	..	2	2	2	..	8

The total death rate for 1888 is 21.95 per 1000 population—33,393 given at last census. The estimated population being 37,253 (Bureau of Statistics) the death rate will be 19.41 per 1000.

The death rate for 1887 is 23.44, population being 33,393 (last census).

Following the extensive epidemic of diphtheria that began in August, 1887, the number of cases reported to the Board decreased during the first three months of the year, but during April and May the number increased and the Board considered it necessary to again employ George G. Cassidy to take especial charge of these cases.

In June fewer cases were reported, and since that time there have been a comparatively small number of cases of contagious diseases or deaths from these causes reported to the Board.

Whenever a case of a contagious disease is reported to the Board the School Committee is immediately notified of such case and its location.

The case is investigated by the Health Inspector, William E. Macomber, who reports the sanitary condition of the premises. After the recovery or death of the patient the owner is required to disinfect the premises at his own expense, or, in case the owner is unable to pay, the work is done by the Board.

It is a marked fact that a very large proportion of the cases of the zymotic diseases reported to the Board are located in the outlying districts of the city, where the inhabitants are unable to get Acushnet water and have to depend on cesspools and privies to dispose of sewage. I would especially call attention to Myrtle street and the short streets near it, and, also, in the south part of the city, to Fruit street and the section in its vicinity.

W. N. SWIFT, City Physician.

REPORT OF NEW BEDFORD QUARANTINE FOR 1888.

From May 1st to November 1st, 1888, boarded 16 vessels arriving from foreign ports.

No vessels were detained in quarantine, as they brought no cases of contagious diseases.

W. N. SWIFT, Quarantine Officer.

In Board of Aldermen,
February 28, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
February 28, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

1889.—CITY DOCUMENT No. 8.

THE

AUDITOR'S ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

City of New Bedford,

INCLUDING

Report of City Treasurer and Collector of Taxes,

FOR THE YEAR 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

City of New Bedford,
Office of the City Auditor,
March 20, 1889.

To the Honorable the City Council of New Bedford:

Gentlemen, — Herewith I have the honor to submit the annual Report of all the Receipts and Expenditures of the city for the financial year ending on the first Monday in January, 1889, together with a statement of the city debt, a schedule of the real and personal property belonging to the city and the estimated value thereof, and such other statements as I have deemed of interest.

Very respectfully,

WILLIAM B. TOPHAM,
City Auditor.

AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ.,
CITY TREASURER,

Dr.

1888, Jan. 5. To balance of cash,		$17,544.41
Appropriations, general, 1886,	$8,249.22	
" " 1887,	6,361.03	
" " 1888,	488,011.60	
" special, 1887,	20,000.00	
" " 1888,	50,000.00	
Cemeteries,	3,131.50	
Cemetery Funds,	1,600.00	
Com. of Mass., Chap. 252,	3,181.18	
" " 301,	3,160.75	
Fire Department,	1,207.43	
Free Public Library, Trustees,	3,517.11	
" " Dog Fund,	987.69	
" " George O. Crocker Fund,	10,000.00	
Highways and Streets,	24,789.49	
Incidentals,	55.45	
N. B. School Committee (Howland Fund),	3,000.00	
" " (Jonathan Bourne Prize Fund),	60.00	
N. B. Water Works,	54,131.89	
Police Department,	5,536.12	
Poor Department,	9,630.77	
Public Schools, Incidentals,	3.30	
" " Dog Fund,	987.69	
Real Estate Tax Account,	226.50	
Sewers, General Account,	5,257.27	
" Court Street, No. 2,	100.00	
" Griffin Street,	8.40	
" Hickory and Ward Streets,	8.40	
" Mt. Pleasant Street,	205.99	
Temporary Loan,	480,000.00	
Unappropriated Funds,	56,849.75	1,240,258.53
		$1,257,802.94

AUDITOR'S REPORT.

In Account with the City of New Bedford.

Cr.

Cemeteries,	$8,327.71
City Stable and Lot,	22,980.44
Com. of Mass., Chap. 252,	6,691.61
" " 301,	3,638.00
Engine House and Lot, Durfee Street,	1,378.65
Fire Department,	38,876.18
Free Public Library,	5,851.88
" " Trustees,	5,235.60
" " Dog Fund,	1,042.85
Harrington School—House and Lot,	27,766.41
Highways and Streets,	103,895.66
Incidentals,	43,308.16
Lighting the Streets,	27,721.86
N. B. & Fairhaven Bridge,	1,572.91
N. B. School Committee (Howland Fund),	2,363.54
" " (Jona. Bourne Prize Fund),	43.17
N. B. Water Works,	85,548.73
Police Department,	61,700.45
Poor Department,	40,543.55
Public Debt,	116,112.11
Public Schools, Incidentals,	27,100.87
" " Pay of Teachers,	78,792.02
" " Repairs of Buildings,	4,150.09
" " Dog Fund,	400.00
" " Parker Street Heating Apparatus,	2,000.00
Real Estate Tax Account,	149.73
Repairs of City Property,	11,755.14
Salaries,	13,779.53
Sewers, General Account,	22,775.66
" Allen Street No. 2,	8.10
" Atlantic Street,	518.66
" Austin Street, No. 3,	206.55
" Chestnut Street,	61.15

Sewers,	Collins Street,	$206.95	
"	Court Street, No. 2,	1,006.93	
"	Elm Street, No. 2,	248.82	
"	Griffin Street,	939.01	
"	Hall Street,	229.48	
"	Hickory and Ward Streets,	3,098.25	
"	Locust Street, No. 2,	1,114.24	
"	Mt. Pleasant Street,	596.91	
"	Oak and Grape Streets,	38.93	
"	Orchard Street,	7,149.08	
"	Pearl and Willis Streets Extensions,	12,125.24	
"	Richmond Street,	509.81	
"	Rivet Street,	1,361.86	
"	Rivet Street, No. 2,	2,430.88	
"	Sherman Street,	1,824.07	
"	South Second Street, No. 2,	798.12	
"	South Water Street, No. 2,	101.00	
"	Union Street, No. 3,	1,197.84	
"	Warwick Street,	67.25	
"	Weld Street,	195.00	
"	West Maxfield Street,	1,949.68	
Sinking Funds,		17,200.00	
Temporary Loan,		395,000.00	
Truant School,		2,291.56	$1,217,977.88
1889, Jan. 7.	Balance, cash in treasury,		39,825.06
			$1,257,802.94

EXPENDITURES IN DETAIL.

SALARIES.

DR.

Morgan Rotch, Mayor,	$1,500.00	
James H. Hathaway, Treasurer and Collector,	2,400.00	
Daniel B. Leonard, City Clerk,	1,000.00	
William B. Topham, City Auditor,	1,000.00	
Arthur E. Perry, City Solicitor,	700.00	
Jireh C. Sherman, Sealer Weights and Measures,	48.25	
William R. Sherman, Sealer Weights and Measures,	306.28	
David B. Willcox, Chairman of Assessors,	850.00	
Charles D. Tuell, Assessor,	600.00	
William A. Russell, Assessor,	600.00	
William A. Mackie, Clerk of Common Council,	200.00	
Augustus D. Piper, City Messenger,	650.00	
Isaac Barnes, Bell Ringer,	125.00	
Clifford Baylies, Superintendent City Clock,	75.00	
Henry L. Pitman, Harbor Master,	125.00	
Samuel H. Damon, Inspector Milk and Provisions,	400.00	
Frederick Macy, Inspector of Buildings,	200.00	$10,779.53
BOARD OF HEALTH:		
James D. Thompson,	$30.17	
Dr. William N. Swift,	300.00	
Nathaniel Hathaway,	300.00	
Thomas W. Cook,	269.83	900.00
REGISTRARS OF VOTERS:		
Thomas F. Desmond,	$400.00	
Emanuel Sullavou,	400.00	
Herbert A. Blackmer,	400.00	
Daniel B. Leonard, Sec'y,	300.00	1,500.00
Amount carried forward,		$13,179.53

Amount brought forward,		$13,179.53
BOARD OF ALDERMEN:		
James E. Stanton,	$100.00	
Charles W. Coggeshall,	100.00	
Charles S. Ashley,	100.00	
Stephen A. Brownell,	100.00	
Wendell H. Cobb,	100.00	
Monroe Holcomb,	100.00	600.00
		$13,779.53
To transfer to Incidentals,		210.47
		$13,990.00

CR.

By appropriation,	$13,990.00

APPROPRIATIONS, GENERAL, 1888.

Dr.

To Cemeteries,	$1,500.00	
Com. of Mass., Chap. 252,	3,500.00	
Discount for prompt payment of taxes,	10,000.00	
Fire Department,	30,500.00	
Free Public Library,	5,400.00	
Highways and Streets,	77,000.00	
Incidentals,	15,710.00	
Lighting the Streets,	27,000.00	
N. B. & Fairhaven Bridge,	1,000.00	
N. B. Water Works,	12,000.00	
Police Department,	46,000.00	
Poor Department,	33,000.00	
Public Debt,	114,611.00	
Public Schools, Incidentals,.	22.000.00	
" " Pay of Teachers,	75,000.00	
" " Repairs of Buildings,	3,000.00	
Repairs of City Property,	5,000.00	
Salaries,	13,990.00	
Sewers, General Account,	1,000.00	
Sinking Funds,	17,200.00	
Truant School,	2,000.00	$516,411.00

Cr.

By Discount appropriation,	$10,000.00	
Collector, taxes of 1888,	458,011.60	
State Corporation Tax,	30,000.00	$498,011.60
1889, Jan. 7. By balance,		18,399.40
		$516,411.00

Dr.

1889, Jan. 7. To balance,	$18,399.40

APPROPRIATIONS, GENERAL, 1887.

Dr.

1888, Jan. 5. To balance,		$12,562.56

Cr.

By Collector, taxes of 1887,	$6,361.03	
1889, Jan. 7. By balance,	6,201.53	$12,562.56

Dr.

1889, Jan. 7. To balance,	$6,201.53

APPROPRIATIONS, GENERAL, 1886.

Dr.

1888, Jan. 5. To balance,	$8,452.61

Cr.

By Collector, taxes of 1886,	$2,934.53	
" " 1885,	105.28	
" " 1884,	78.70	
" " 1883,	82.96	
" " 1882,	47.75	$3,249.22
By State, Corporation Tax,		5,000.00
		$8,249.22
1889, Jan. 7. By balance,		203.39
		$8,452.61

Dr.

1889, Jan. 7. To balance,	$203.39

APPROPRIATIONS, SPECIAL, 1888.

Dr.

Cemeteries,	$2,500.00	
City Stable and Lot,	11,580.44	
Engine House and Lot, Durfee Street,	1,400.00	
Fire Department,	4,700.00	
Harrington School—House and Lot,	38,264.56	
Highways and Streets,	5,500.00	
Incidentals,	550.00	
N. B. and Fairhaven Bridge,	500.00	
N. B. Water Works,	20,000.00	
Police Department,	8,900.00	
Public Schools, Incidentals,	2,500.00	
" " Pay of Teachers,	6,000.00	
" " Repairs of Buildings,	1,500.00	
Repairs of City Property,	3,455.00	$107,350.00
Sewers, General Account,	$18,400.00	
" Allen Street, No. 2,	8.10	
" Atlantic Street,	518.66	
" Austin Street, No. 3,	206.55	
" Chestnut Street,	61.15	
" Collins Street,	250.00	
" Court Street, No. 2,	906.93	
" Elm Street, No. 2,	222.12	
" Griffin Street,	822.88	
" Hall Street,	205.41	
" Hickory and Ward Streets,	2,961.25	
" Locust Street, No. 2,	1,114.24	
" Mt. Pleasant Street,	550.71	
" Oak and Grape Streets,	38.93	
" Orchard Street,	5,600.00	
" Pearl and Willis Streets Extension,	12,885.19	
" Richmond Street,	477.26	
" Rivet Street,	1,361.86	
" Rivet Street, No. 2,	2,550.00	
" Sherman Street,	1,824.07	
" So. Second Street, No. 2,	798.12	
" Union Street, No. 3,	1,197.84	
" Warwick Street,	67.25	
" Weld Street,	195.00	
" West Maxfield Street,	1,949.68	55,173.20
		$162,523.20

Cr.

By sale of Water Bonds,	$20,000.00	
Transfer from Unappropriated Funds,	16,533.88	$36,533.88
1889, Jan. 7. By balance,		125,989.32
		$162,523.20

Dr.

1889, Jan. 7. To balance,	$125,989.32

COMMONWEALTH OF MASSACHUSETTS.

Chapter 252.

Dr.

1888, Jan. 5.	$3,018.00	
To amount paid by city for State aid,	6,691.61	$9,709.61

Cr.

By appropriation,	$3,500.00	
By cash receipts, as per Treasurer's report,	3,181.18	$6,681.18
1889, Jan. 7. By balance,		3,028.43
		$9,709.61

Dr.

1889, Jan. 7. To balance,	$3,028.43

COMMONWEALTH OF MASSACHUSETTS.

Chapter 301.

Dr.

1888, Jan. 5. To balance,	$3,377.15	
To amount paid by city for State aid,	3,638.00	$7,015.15

Cr.

By cash receipts, as per Treasurer's report,	$3,160.75	
1889, Jan. 7. By balance,	3,854.40	$7,015.15

Dr.

1889, Jan. 7. To balance,	$3,854.40

APPROPRIATIONS, SPECIAL, 1887.

Dr.

1888, Jan. 5. To balance,	$54,298.12

Cr.

By sale of Sewer Bonds,	$35,000.00	
" Improvement Bonds,	15,000.00	
By transfer from Unappropriated Funds,	4,298.12	$54,298.12

NEW BEDFORD WATER WORKS.

(AS PUBLIC PROPERTY.)

DR.

1889, Jan. 7. To valuation of works,		$1,200,000.00

BALANCE OF PUBLIC PROPERTY.

DR.

To bonds issued,	$70,000.00	
1889, Jan. 7. To balance,	928,497.77	$998,497.77

CR.

1888, Jan. 5. By balance,	$927,504.66	
By bonds paid,	45,000.00	
Commissioners of Sinking Funds,	19,893.11	
Increase in valuation,	6,100.00	$998,497.77

CR.

1889, Jan. 7. By balance,		$928,497.77

SINKING FUNDS.

DR.

To paid Sinking Fund Commissioners,		$17,200.00

CR.

By appropriation,		$17,200.00

BONDS.

Dr.

To bonds paid,	$45,000.00	
1889, Jan. 7. To balance,	1,208,000.00	$1,253,000.00

Cr.

1888, Jan. 5. By balance,	$1,183,000.00	
By bonds issued,	70,000.00	$1,253,000.00

Cr.

1889, Jan. 7. By balance,	$1,208,000.00

PUBLIC PROPERTY (OTHER THAN WATER WORKS).

Dr.

1888, Jan. 5. To balance,	$977,500.00	
To excess of valuation over 1887,	6,100.00	$983,600.00

Cr.

1889, Jan. 7. By balance,	$983,600.00

Dr.

1889, Jan. 7. To balance,	$983,600.00

SINKING FUND COMMISSIONERS.

Dr.

1888, Jan. 5. To balance,	$33,004.66	
To increase in hands of Commissioners over 1887,	19,893.11	$52,897.77

Cr.

1889, Jan. 7. By balance,	$52,897.77

Dr.

1889, Jan. 7. To balance,	$52,897.77

TEMPORARY LOAN.

Dr.

To paid loans,	$395,000.00	
1889, Jan. 7. To balance,	125,000.00	$520,000.00

Cr.

1888, Jan. 5. By balance,	$40,000.00	
By sundry loans,	480,000.00	$520,000.00

Cr.

1889, Jan. 7. By balance,	$125,000.00

CEMETERIES.

Dr.

Pay-rolls, labor,	$1,250.50
Anthony, E. & Sons, advertising,	2.00
Barrows & Lawton, painting,	4.07
Bertram, John & Co., concreting,	1,352.53
Brown, W. S., plants and labor,	51.75
Brownell & Co., paint,	172.79
Butts, C. H. W., cleaning vault,	2.00
Cornell, C. F., labor,	889.30
Covell, E. T., vase,	10.00
Cunningham, D. P., gravel,	21.50
Davis, Otis A., labor,	741.10
Davis Bros., painting,	105.30
Deane, Thomas, paving,	39.30
DeWolf & Vincent, hardware,	19.75
Dews, Edwin, book,	.25
Drake, A. B., surveying,	110.90
Eggers, Selmar, powder,	.90
Gifford's Brass Foundry, plumbing,	47.11
Gifford, Charles, use of oxen,	29.75
Graham, E. O., plants,	5.00
Greene & Wood, lumber,	9.29
Grinnell, A. B., labor "Pine Grove,"	5.50
Hathaway, D. L., carpentry,	358.77
Hayes, N. P., hardware and tools,	48.47
Holmes, D. W., masonry,	67.40
Howard, W. M., plants and labor,	179.92
Jenney, P. P. & Son, repairing tools,	40.39
Lawton, R. S., gravel,	49.50
Mackie, James, anvil and bellows,	6.60
McCue, John, granite chips,	5.50
Mercury Publishing Co., advertising,	2.50
Mott Iron Works, fountain,	42.00
Munroe, J. P. G., granite chips,	29.50
Murphy, M., labor,	13.75
Nelson, George, masonry,	2.10
N. B. Cordage Co., rope,	3.00
N. B. Water Works, fountain, labor, &c.,	988.19
Paisler, C. S., brick, cement, &c.,	10.19
Perkins & Chase, gravel and concrete,	48.75
Pierce & Soule, paint,	40.01
Peirce, Wm., plants and labor,	135.00

Poole, Richard, work on tomb,	$18.20	
Potter, E. L., brooms,	2.40	
Purrington & Brown, paper,	2.00	
Reed, Eli W., sand,	9.00	
Russell, C. D'O., lettering signs,	6.00	
Sadler, John N., labor,	914.10	
Sanders, Wm., salary as superintendent,	200.00	
Sanders, Wm., paid for labor,	18.00	
Skiff, A. J., labor,	22.73	
So. Mass. Telephone Co.,	78.00	
Sturtevant & Parker, painting,	26.56	
Sullings, Kingman & Co., tools,	11.12	
Sylvia, A. A., sharpening tools,	29.35	
Taber, Lemuel, labor,	23.62	
Thomas, H. E., labor,	20.00	
Wilson, W. P., grass seeds,	1.25	
Wood, E. B. & Son, carriage hire,	3.25	$8,327.71

Cr.

1888, Jan. 5. By balance,		$216.33
By appropriations, general,	$1,500.00	
" special,	2,500.00	
Transfer from Unappropriated Funds,	979.88	4,979.88
Cash receipts, as per Treasurer's report,		3,131.50
		$8,327.71

CITY STABLE AND LOT.

Dr.

Acushnet Iron Co., stall partitions,	$84.00	
Brightman, C. O., shed contract,	7,000.00	
Brownell & Murkland, stable contract,	13,900.00	
Brownell & Murkland, excavating and drain,	350.00	
Hammond, E. B., architect,	550.00	
N. B. Water Works,	121.06	
Perkins & Chase, concreting,	505.50	
Sullings, Kingman & Co., hardware,	469.88	$22,980.44
1889, Jan. 7. To balance,		2,500.00
		$25,480.44

Cr.

1888, Jan. 5. By balance,	$13,900.00	
By special appropriations,	11,580.44	$25,480.44

Cr.

1889, Jan. 7. By balance,	$2,500.00

REAL ESTATE TAX ACCOUNT.

Dr.

1888, Jan. 5. To balance,	$417.40	
To paid taxes and costs on real estate,	149.73	$567.13

Cr.

By paid up taxes, as per Treasurer's report,	$226.50	
1889, Jan. 7. By balance,	340.63	$567.13

Dr.

1889, Jan. 7. To balance,	$340.63

FREE PUBLIC LIBRARY.

Dr.

SALARIES:		
R. C. Ingraham, librarian,	$2,145.84	
W. L. R. Gifford, assistant,	1,200.00	
J. A. Merrick, "	527.50	
M. E. Brown, "	506.67	
S. H. Gammons, "	506.67	
E. J. Merrick, "	107.00	
L. M. Gammons, "	33.00	$5,026.68
MISCELLANEOUS:		
Almy & Milne, newspaper,	$6.00	
Alta Pub. Co.,	4.50	
Anthony, E. & Sons, advertising and printing,	138.24	
Dews, Edwin, binding, &c.,	166.46	
Ellis, L. B., repairing frames,	75.75	
Kane, D. J. & Bro., binding,	1.35	
Mercury Pub. Co., printing, binding, &c.,	317.90	
Providence Journal Co., newspaper,	3.50	
Pulsifer, Jordan & Pfaff, paper,	96.00	
Williams & Everett, repairing portraits,	15.50	825.20
		$5,851.88

Cr.

By appropriation,	$5,400.00	
Transfer from Poor Department,	451.88	$5,851.88

FREE PUBLIC LIBRARY—TRUSTEES.

(INCOME DERIVED FROM TRUST FUNDS.)

Dr.

Books, Periodicals, Newspapers, Binding, &c.:

Academy of Natural Sciences,	$35.00
Allyn & Bacon,	15.53
Allyn, John,	1.85
American Chemical Journal,	3.00
American Journal of Mathematics,	5.00
American Journal of Philology,	3.00
Anthony, E. & Sons,	6.00
Appleton, D. & Co.,	5.40
Armstrong, A. C. & Son,	3.00
Balch Bros. & Graham,	10.50
Bancroft, Whitney & Co.,	12.00
Bittinger, J. O.,	3.65
Borden, C. F.,	45.57
Boston Society of Nat. History,	7.00
Bowker, R. R.,	5.00
Cambridge Entomological Society,	5.00
City Treasurer,	126.00
Clark, A. S.,	8.72
Clarke, Robert & Co.,	1.50
Clark & Carruth,	4.36
Conant, Fred Odell,	5.00
Co-operative Newspaper Society,	2.25
Dante Society,	10.00
Dawson, H. B.,	3.00
Dews, Edwin,	425.59
Electrical World,	3.00
Ellis, Geo. H.,	2.00
Essex Institute,	7.50
Francis, D. G.,	22.05
Garrison, Martin & Co.,	5.00
Gately & Co.,	10.00
Goss, F. B. & F. P.,	2.00
Harper, F. P.,	7.12
Harvard Monthly,	2.00
Henry, J. B.,	1.50
Hickox, J. H.,	5.00
Historical Society of Pennsylvania,	5.00

Houghton, Mifflin & Co.,	$3.50
Hutchinson, H. S. & Co.,	863.66
Inman, H. S.,	221.00
Jackson, Wm.,	3.00
Kane, D. J. & Bro.,	45.10
Lamb, J. H., Agent,	6.00
Lawrence, L. L.,	1.00
Lawton, J. M., Jr.,	821.10
Lend a Hand Publishing Co.,	2.00
Little, Brown & Co.,	1,152.75
Littlefield, George E.,	245.82
Massachusetts Historical Society,	8.50
Maybridge, Edward,	100.00
McDonough, Joseph,	10.35
Mercury Publishing Co.,	6.00
Middlesex Institute,	1.00
Modern Language Notes,	1.50
Munsell, Joel's Sons,	6.05
Narragansett Historical Publishing Co.,	2.00
New Haven Colony Historical Society,	5.00
New York Shakspeare Society,	2.50
Nichols, C. A. & Co.,	5.00
Noyes, H. D. & Co.,	23.85
Parsons, J. D., Jr.,	4.50
Peet, S. D.,	8.00
Poor, H. V. & H. W.,	8.00
Publishers Weekly,	1.50
Q. P. Index,	3.50
Randolph & English,	5.00
Raymond, E. P.,	3.00
Roffe, A. H. & Co.,	215.00
Sampson, Murdock & Co.,	5.00
Schoenhof, Carl,	157.81
Scranton, S. S. & Co.,	1.50
Scribner, Charles' Sons,	22.50
Scudder, S. H.,	15.00
Shakspeare Society,	2.50
Shea, J. G.,	5.00
Stechert, G. E.,	16.10
Studies in Historical and Political Science,	4.00
Taber, Chas. & Co.,	200.00
Taylor, T. J.,	28.15
Thurston, B. & Co.,	15.00
Ticknor & Co.,	15.00
U. S. Patent Office,	62.40

Waldron, C. D.,	$3.00	
Wilbor, G. H.,	3.75	
Willey, Henry,	5.00	
Wilson, E. L.,	3.46	
Winslow, W. C.,	15.00	
Woodward, C. L.,	2.00	
Wright, W. C.,	20.00	
Zahm, S. H. & Co.,	23.16	$5,235.60
1889, Jan. 7. To balance,		9,371.93
		$14,607.53

Cr.

1888, Jan. 5. By balance,	$11,090.42	
By cash receipts, as per Treasurer's report,	3,517.11	$14,607.53

Cr.

1889, Jan. 7. By balance,	$9,371.93

FREE PUBLIC LIBRARY — DOG FUND.

Dr.

Ames, Yorick W., janitor,	$540.00	
Borden, C. F., catalogue stand,	78.85	
Briggs & Lawrence, furniture,	49.00	
Cook, S. H., insurance,	187.50	
Grinnell, Lawrence, insurance,	187.50	$1,042.85
1889, Jan. 7. To balance,		570.07
		$1,612.92

Cr.

1888, Jan. 5. By balance,	$625.23	
By amount received from County Treasurer,	987.69	$1,612.92

Cr.

1889, Jan. 7. By balance,	$570.07

FIRE DEPARTMENT.

Dr.

Pay-Rolls:		
Board of Engineers,	$1,520.00	
Permanent men,	12,338.62	
Engine companies,	7,918.29	
New Bedford Protecting Society,	150.00	$21,926.91
Repairs of Engines, Harness, &c.:		
American Tube Works,	$22.86	
Brownell, Ashley & Co.,	227.16	
Brownell, George L.,	91.00	
Chadwick, H. E.,	16.00	
Cronin, William,	188.15	
Cushing, C. F.,	28.55	
Dexter, T. D.,	199.36	
Durfee, E. M.,	87.62	
Fichtenmayer & Flynn,	25.85	
Footman, J. W.,	1.85	
Forbes, J. R. & Co.,	128.85	
Hathaway, L. J.,	4.25	
Healey, T. F.,	32.75	
Macy, E. B.,	122.63	
Moriarty Bros.,	44.72	
N. B. Boiler & Machine Co.,	58.24	
Silsby Manufacturing Co.,	5.05	
Veit, R. J.,	6.00	
White, Phineas,	3.86	
Willis, W. H.,	163.31	1,458.06
Repairs of Engine Houses:		
Bliss, George H.,	$27.26	
Brightman, C. O.,	9.22	
Broad Gauge Iron Co.,	8.10	
Coggeshall, Maxfield & Co.,	13.80	
DeWolf & Vincent,	2.68	
Dexter, T. D.,	6.25	
Gifford's Brass Foundry,	324.27	
Gifford, T. J. & Co.,	6.99	
Greene & Wood,	75.78	
Hammond, F. W.,	475.65	
Hart & Akin,	3.16	
Amount carried forward,		$23,384.97

Amount brought forward,		$23,384.97
Hatch, George E.,	$55.02	
Jenney & Buffington,	35.73	
Lowe, S. C.,	1.00	
Lowe & Pearsons,	11.85	
Mason & Tripp,	328.72	
Nelson, George,	15.05	
Penney, E. F.,	2.95	
Sheehan, Timothy,	24.00	
Sherman, C. R. & Son,	2.33	
Snow & Gilbert,	62.03	
Tillinghast, W. A.,	546.40	
Tripp, S. A.,	118.51	
Waite, B. H. & Co.,	91.12	
Washburn, W. H.,	17.69	
Wood, Brightman & Co.,	52.77	2,318.33
HAY, GRAIN, AND FUEL:		
Allen, Mrs. F.,	$24.08	
Baylies, William,	315.51	
Benson, C. S.,	8.08	
Brownell, J. T.,	63.05	
Corson, T. S.,	463.62	
Denison Bros.,	319.93	
Duff, David & Son,	151.26	
Hart & Akin,	10.52	
Jenney, W. A.,	26.65	
Kirk, John,	437.51	
Lawton, W. J.,	41.69	
Macomber Bros.,	60.61	
Macy, Josiah, Jr.,	62.75	
Marston, F. A. & Co.,	161.75	
Poor Department,	624.95	
Potter, D. H.,	80.15	
Sherman, Daniel,	40.95	
Thatcher, Warren,	30.75	
Tinkham, N.,	62.66	
Wamsutta Mills,	59.30	
Wing, Samuel,	37.87	3,083.64
SUPPLIES:		
Beattie Battery Zinc Co., zinc,	$127.72	
Boston Belting Co., hose,	59.40	
Amount carried forward,		$28,786.94

Amount brought forward,		$28,786.94
Boston Woven Hose Co., hose,	$18.00	
Boyd, Alexander, hose,	424.40	
Briggs, D. D., alarm supplies,	51.31	
Briggs & Lawrence, furniture, &c.,	160.21	
Callahan, C. & Co., hose,	276.00	
Coggeshall, Maxfield & Co.,	1.55	
Covell, A. H., medicines,	3.35	
Cummings, C. S. & B., oil, &c.,	11.64	
Davis, James, pitcher,	.50	
DeWolf & Vincent, hardware,	2.44	
Dews, Edwin, books, &c.,	12.20	
Donaghy, Thomas, packing, &c.,	17.04	
Driscol, Church & Hall, oil, &c.,	14.15	
Eastern Electric Cable Co., wire,	112.92	
Electric Gas Lighting Co., gongs and insulators,	20.10	
Grinnell, Edmund, castings,	3.50	
Hadley, F. R., medicines,	67.65	
Hart, T. M. & Co., nets,	28.87	
Hinman, J., extinguishers, &c.,	82.20	
Homer, G. S., oil,	10.00	
Jackson, A. S.,	26.00	
Johnson & Howland, poles,	5.55	
Kirby, C. L., brass,	9.80	
Lawton, C. H. & H. A., medicines,	10.48	
Lewis, Wm., lead and oil,	10.25	
Lowe & Pearsons, packing, &c.,	6.40	
N. B. Cordage Co., rope,	10.12	
Nye, W. F., oil,	11.00	
Old Colony R. R. Co., rails,	50.25	
Pager and Coffin, whips,	13.50	
Pierce & Sowle, hardware,	14.73	
Richards, George D., pails, mats, &c.,	35.89	
Robinson, W. A. &. Co., oil,	6.75	
Rogers, Edwin, fire alarm keys,	4.00	
Scoville Manufacturing Co., buttons,	9.00	
Sherman, C. R. & Son, keys, figures, &c.,	11.08	
Sherman & Purrington, cards,	8.10	
Soule, W. T., quilt,	1.00	
Standard Chemical Co., metal polish,	15.00	
Sullings, Kingman & Co., hardware and tools,	174.34	
Sullivan, D. J., clock,	6.50	
Taber, R. H., lanterns, candles, and globes,	25.88	
Amount carried forward,		$28,786.94

Amount brought forward,		$28,786.94
Taylor, J. P., medicines,	$8.76	
Tripp, S. A., iron,	1.60	
Wamsutta Mills, waste,	53.01	
Whiting, E. B. & Co., cloth and bedding,	47.68	
Wing, C. F., carpets, mats, &c.,	81.91	2,163.73
MISCELLANEOUS:		
Anthony, E. & Sons, advertising,	$50.75	
Ashley, Dr. D. C., professional services,	10.00	
Ashley, I. L., carriage hire,	15.00	
Bancroft House,	9.00	
Beeden, B. M., use of derrick,	10.02	
Bliss & Nye, cuspadores,	2.00	
Brownell, Ashley & Co., wagon, &c.,	366.37	
Brownell, Ashley & Co., still alarm wagon,	540.00	
Brownell, Heirs of Joseph, rent,	85.00	
Caswell, N. H., horse shoeing,	47.55	
Coggeshall, W. P., sand,	7.50	
Crapo, Peter, horse,	350.00	
Duff, David & Son, horses,	600.00	
Dunlap, A. A., veterinary services,	163.00	
Durfee, E. M., shoeing horses,	115.92	
Dwelley, Andrew, carriage hire,	4.85	
Edison Electric Lighting Co.,	299.54	
Fichtenmayer & Flynn, horse shoeing,	14.90	
Footman, J. W., horse shoeing,	7.47	
Fuller, N. T., horse shoeing,	20.00	
Gray, C. A., freight and carting,	3.07	
Harris, H. S. & Co., pair horses,	426.00	
Hayden, Eugene, carriage hire,	1.70	
Hayes, N. P., hardware,	9.35	
Hayes, Dr. S. W., professional services,	23.00	
Kelley, C. S., transportation to fires,	18.20	
Kelley, W. L., repairing clock,	1.25	
Lafrance Fire Engine Co., ladder truck,	3,000.00	
Mackie, Dr. J. H., professional services,	59.00	
Macy, E. B., iron work,	27.10	
Macy, Frederick, use of horse,	300.00	
Macy, Frederick, expenses,	145.90	
Maine, H. M., cleaning carpets,	12.39	
Manchester, F. W., ice,	8.50	
Mercury Publishing Co.,	6.00	
Amount carried forward,		$30,950.67

Amount brought forward,		$30,950.67
N. B. Gas Light Co.,	$311.71	
N. B. Ice Co.,	41.70	
Old Colony R. R. Co., freight and tickets,	138.11	
Paisler, C. S., cement,	105.35	
Reynolds, E. G. & Co., carriage hire,	11.00	
Roatch, E. R., horse shoeing,	43.88	
Rogers, Abiathar,	13.99	
Russell, Pardon, Jr., ice,	13.20	
Sargent, F. H., plating,	9.00	
Sherman & Purrington, printing,	9.25	
Sherman, W. H., carriage hire,	8.85	
Sylvia, John, steward No. 9,	6.00	
So. Mass. Telephone Co.,	350.00	
Swan, W. D. & Son, axe handles,	4.30	
Taber, R. H., repairing lanterns,	2.00	
Thomas, George, ice,	15.00	
Tripp, S. A.,	1.25	
Underwood, J. A., labor,	6.97	
West, W. R., painting,	73.62	7,925.51
		$38,876.18

Cr.

By appropriation, general,	$30,500.00	
" special,	4,700.00	
Transfer from Unappropriated Funds,	2,430.33	
" " Poor Department,	38.42	
Cash receipts, as per Treasurer's report,	1,207.43	$38,876.18

ENGINE HOUSE AND LOT—DURFEE ST.

Dr.

Smith, Bradford, land,	$1,378.65	
To transfer to Incidentals,	21.35	$1,400.00

Cr.

By special appropriation,	$1,400.00

HARRINGTON SCHOOL—HOUSE AND LOT (COURT STREET).

Dr.

Burke, James, dirt,	$50.00	
Duff, David & Son, dirt,	632.00	
Hunt, S. C., contract,	19,450.00	
Hunt, S. C., stock and labor on heating apparatus,	4,033.76	
Hunt, S. C., " " drains,	796.62	
Hunt, S. C., difference in brick,	693.40	
N. B. Water Works,	29.38	
Smead & Northcott, heating apparatus,	2,081.25	$27,766.41
1889, Jan. 7. To balance,		15,117.75
		$42,884.16

Cr.

By appropriations, special,	$38,264.56	
Transfer from Highways and Streets,	3,393.83	
" " Poor Department,	1,225.77	$42,884.16

Cr.

1889, Jan. 7. By balance,	$15,117.75

FREE PUBLIC LIBRARY—GEORGE O. CROCKER FUND.

Dr.

To transfer to Trust Funds,	$10,000.00

Cr.

By bequest of George O. Crocker, as per Treasurer's report,	$10,000.00

HIGHWAYS AND STREETS.

Dr.

Pay-Rolls:		
Labor and teams,		$60,257.19
Flagging and Stones:		
Addy, William,	$3.22	
Allen, Clark,	47.26	
Aqua, Louis,	2.87	
Ashley, H. T.,	86.44	
Bailey, G. P.,	.99	
Beetle, Rodolphus,	55.20	
Beetle & Smith,	11.97	
Bertram, John,	2.93	
Borden, George B.,	96.66	
Brawley, Wm.,	44.47	
Brownell, H. M.,	11.23	
Burke, Charles,	84.96	
Burke, James,	36.76	
Burns, J. H.,	101.84	
Butts, C. H. W.,	43.41	
Carlo, Louis,	21.39	
Carr, F. B.,	54.48	
Casey, E. H.,	74.55	
Chaffee, Z.,	75.33	
Cobb, G. A.,	108.38	
Collins, J. M.,	.63	
Connell, John,	41.62	
Connell, William,	4.79	
Cook, P. B.,	62.46	
Corson, T. S.,	13.47	
Cory, George F.,	109.06	
Cory, George G.,	88.56	
Crapo, George G.,	320.21	
Cunningham, D. P.,	33.35	
Curtis, M. E.,	37.30	
Davenport, Dudley,	94.87	
Davis, A. B. & Son,	5.31	
Davis, James, 2d,	3.22	
Davis, M. M.,	26.13	
Amount carried forward,		$60,257.19

Amount brought forward,		$60,257.19
Davis, O. A.,	$3.29	
Dawson, Benjamin,	15.98	
Douglass, J. O.,	125.77	
Duddy, James,	47.26	
Duff, David & Son,	824.00	
Dunn, John,	82.24	
Durfee, E. M.,	40.56	
Francis, Manuel,	5.50	
Fredette, John,	5.17	
Gammons, F. N.,	85.07	
Gifford, C. T. W.,	193.61	
Gifford, S. C.,	32.00	
Goulet, Julian,	22.07	
Grew, David, Jr.,	134.95	
Hall, W. H.,	.61	
Haskell, G. M.,	80.00	
Hathaway, P. E.,	154.86	
Hathaway, P. S.	234.89	
Hawes, S. T.,	142.27	
Howes, Frank,	12.41	
Howland Ezra,	30.57	
Jacintho, J.,	39.85	
Jenks, A. F.,	27.27	
Jenney, H. P.,	40.16	
Kenney, E. D.,	41.38	
Kenney, Thomas,	4.88	
King, B. W.,	130.59	
King, J. T.,	77.49	
King, Levi,	3.93	
Lawton, R. S.,	18.55	
Manchester, J. W.,	62.22	
McNamara, Stephen,	52.19	
Miller, Harry,	.50	
Nash, Thomas,	31.38	
Nye, Willard, Jr.,	41.44	
O'Leary, Patrick,	33.44	
Paisler, C. S.,	6,106.59	
Peckham, Reuben,	27.43	
Perkins & Chase,	5.32	
Pittsley, William,	9.68	
Pool, I. B.,	38.26	
Pool, P. S.,	4.66	
Amount carried forward,		$60,257.19

Amount brought forward,		$60,257.19
Pool, Richard,	$105.37	
Potter, George A.,	110.65	
Potter, Sarah C.,	32.98	
Quirk, Patrick,	24.42	
Reed, Eli W.,	196.98	
Ricketson, B., Jr.,	137.81	
Ritter, B. O.,	14.84	
Rogers, A.,	31.90	
Rogers, Emily D.,	42.57	
Rogers, J. H.,	70.00	
Shaw, J. L.,	11.37	
Sheehan, Timothy,	152.42	
Sisson, A. B.,	511.87	
Skiff, A. C.,	3.64	
Spooner, C. F., 2d,	121.62	
Spooner, J. W.,	135.37	
Stanton, J. E.,	4.50	
St. Hilaire, Bruno,	150.87	
Stowell, B. I.,	1,103.43	
Sullivan, J. B.,	151.58	
Sutton, W. J.,	118.12	
Sweeney, Daniel,	17.23	
Taber, George B.,	29.38	
Tripp, Alexander,	9.00	
Upham, W. O. T.,	86.56	
Warren, David,	22.28	
Wilber, J. T.,	52.87	
Woodhouse, Wm.,	38.77	14,364.01
Repairs of Wagons and Harness:		
Bridgeport Steel Cutting Co.,	$7.50	
Brownell, Ashley & Co.,	32.62	
Caswell, N. H.,	95.58	
Caswell, O. F.,	51.25	
Cronin, William,	249.11	
Cushing, C. F.,	431.24	
Durfee, E. M.,	88.23	
Fichtenmayer & Flynn,	942.68	
Forbes, J. R. & Co.,	1,041.47	
Hathaway, A. E.,	113.00	
Hathaway, L. J.,	64.75	
Luce, F. C.,	344.91	
Amount carried forward,		$74,621.20

Amount brought forward,		$74,621.20
Sisson, O. A.,	$35.00	
Springer, A. R.,	6.98	
Willis, W. H.,	11.73	3,516.05
SHARPENING AND REPAIRING TOOLS:		
Collet, M. E.,	$8.27	
Durfee, E. M.,	118.42	
Footman, J. W.,	39.37	
Hathaway, A. E.,	643.65	
Jenney, P. P. & Son,	192.19	
King, W. F.,	73.36	
Sawyer, S. P.,	1.25	
Sherman, W. D.,	7.05	
Skiff, S. B.,	111.13	
Springer, A. R.,	12.84	
Swift, G. D.,	8.79	
Sylvia, A. A.,	30.56	
Taber, C. G.,	12.53	
Terry, F. C.,	107.33	1,366.74
HAY, GRAIN, AND FUEL:		
Alden, Seth,	$60.95	
Baylies, William,	612.58	
Bishop, A. K.,	11.10	
Blossom, Edwin,	50.55	
Borden, C. M.,	10.00	
Corson, T. S.,	470.99	
Crapo's Steam Mill,	18.70	
Dahl, James,	43.80	
Denison Bros.,	1,740.61	
Duff, David & Son,	349.22	
Fire Department,	133.50	
Howard, H. T.,	13.88	
Jenney, W. A.,	88.56	
Jennings, L. T.,	1,234.84	
Kirk, John,	152.07	
Lawrence, Joseph,	109.82	
Little, E. A.,	326.58	
Mackenzie & Co.,	215.32	
McKenzie & Winslow,	493.31	
Amount carried forward,		$79,503.99

Amount brought forward,		$79,503.99
N. B. Gas Light Co.,	$35.03	
Poor Department,	135.70	
Saucier, Henry,	12.50	
Wright, J. M.,	17.01	6,336.62
GRAVEL AND SAND:		
Ashley, Mary,	$7.24	
Brownell, H. M.,	149.79	
Coggeshall, J. F.,	227.66	
Coggeshall, W. P.,	464.97	
Corson, T. S.,	479.88	
Duff, David & Son,	3,507.70	
Gray, C. A.,	33.50	
Holmes, D. W.,	10.00	
Parker, Lucy N.,	114.66	
Perkins & Chase,	1,318.37	
Pool, P. S.,	114.48	
Spooner, W. C.,	15.68	6,443.93
HORSE SHOEING:		
Caswell, N. H.,	$51.61	
Caswell, O. F.,	67.05	
Durfee, E. M.,	21.93	
Footman, J. W.,	13.13	
Forbes, J. R. & Co.,	12.88	
Fuller, N. T.,	22.75	
Hathaway, A. E.,	156.24	
Luce, J. L.,	39.35	
Roatch, E. R.,	18.40	
Rotch, Edward,	15.00	
Taber, C. G.,	27.60	
Tripp & Boyle,	24.79	470.73
REPAIRS OF ROLLER AND CRUSHERS:		
Babbitt, Wood & Co.,	$56.29	
Bowker & Tripp,	231.76	
DeWolf & Vincent,	2.45	
Farrell Foundry & Machine Co.,	417.44	
Gardner & Southwick,	.30	
Gifford's Brass Foundry,	8.47	
Gifford, T. J. & Co.,	315.33	
Amount carried forward,		$92,755.27

Amount brought forward,		$92,755.27
Lucas, A. E.,	$7.55	
N. B. Boiler & Machine Co.,	330.61	
N. B. Machine Shop,	4.60	
Oastler, W. C.,	159.50	
Penney, E. F.,	43.18	
Pierce & Sowle,	31.70	
Sawyer, S. P.,	5.75	
Weaver, S. V.,	16.05	
White, Phineas,	1.00	1,631.98
SUPPLIES AND MATERIALS:		
Beetle, Rodolphus, spar,	$1.50	
Briggs, Charles, saw,	3.00	
Brownell & Co., paints,	13.65	
Bryant Bros., rosin,	.40	
Cobb, G. A., shovels,	4.25	
Cornell, J. W., picks, hammers, &c.,	58.42	
Davis, James, pails,	.90	
Davis, L. D., powder,	5.00	
Delano, George's Sons, oil,	80.34	
DeWolf & Vincent, hardware,	4.42	
Donaghy, Thomas, belt,	2.30	
Driscol, Church & Hall, oil, soap, &c.,	27.47	
Dwelley, Andrew, wheels,	10.00	
Eggers, Selmar, powder and fuse,	87.08	
Folger, D. B., tubs,	1.45	
Gray, C. A., dynamite,	27.67	
Greene, N. Herbert, tallow,	1.40	
Greene & Wood, lumber,	4.63	
Hadley, F. R., medicines,	17.35	
Hart, T. M. & Co., horse sling,	10.02	
Hayes, N. P., tools, &c.,	132.94	
Hillman, Jethro, lumber,	1.25	
Jenkins, B. S., paint,	38.49	
Jenney, P. P. & Son,	5.40	
Kirby, George, Jr. & Co., paints,	15.26	
Lewis, Robert, "Pratt's Food,"	1.50	
Lowe & Pearsons, hardware and tools,	118.02	
Lowe, J. H., tallow,	2.28	
Lowe, S. C., hardware and tools,	289.65	
Lucas, A. E., belt,	8.69	
N. B. Cordage Co., rope,	16.28	
Amount carried forward,		$94,387.25

Amount brought forward,		$94,387.25
Pierce & Sowle, belting,	$10.45	
Potomska Mills, waste,	6.10	
Russell, Luther, salt,	6.00	
Russell, S. H., oil,	5.46	
Sawyer, S. P., pails, dippers, &c.,	16.82	
Scollay & Rich, metal polish,	14.95	
Sherman, C. R. & Son, stationery,	12.40	
Sullings, Kingman & Co., hardware, &c.,	108.77	
Tillinghast, W. A., lumber,	202.24	
Waite, Williams & Co., oil,	40.08	
Wakefield Rattan Co., reeds,	12.25	
Washburn, W. H., lumber,	236.27	
Whittemore, M. F., tallow,	6.18	
Wilson, W. P., tools,	10.85	1,679.46
MISCELLANEOUS:		
Anthony, E. & Sons, advertising,	$39.10	
Ashley, Dr. D. C., veterinary surgeon,	110.50	
Bailey, G. P., liniment,	4.05	
Bancroft, J. V., teaming,	15.00	
Baylies, Clifford, repairing clock,	1.00	
Bertram, John, concrete,	3,045.92	
Briggs & Lawrence, chair,	10.00	
Brown, J. Q. A., use of barge,	72.00	
Brownell, H. M., carriage hire,	50.75	
Butts, C. H. W., night soil,	12.00	
Cobb, G. A., repairing pump,	4.10	
Coggeshall, C. W., repairing blocks,	11.82	
Collins, William, care of lights,	3.00	
Cornell, C. R., horse keeping,	15.25	
Court Street Sewer, No. 2, overcharge,	100.00	
Crapo, W. W., land rent,	30.00	
Drake, A. B., surveying,	499.80	
Edison Electric Ill. Co.,	44.72	
Enos, Antone, care of lights,	1.80	
Fairbanks, Brown & Co., repairing scales,	11.00	
Gifford's Brass Foundry, labor,	2.16	
Greene, N. H., expense of committee,	5.84	
Hatch & Co's Express,	.95	
Hathaway, A. E., horses,	1,275.00	
Hathaway, H. C., commission,	114.33	
Hillman, Jethro, carpentry,	198.03	
Amount carried forward,		$96,066.71

Amount brought forward,		$96,066.71
Holmes, D. W., masonry,	$35.38	
Hornblower, Dr. W. H., veterinary surgeon,	40.00	
Howland, E. S., pigs,	35.00	
Jenney, P. P. & Son, labor,	75.26	
Jennings, G. M., pigs,	12.00	
Kane, D. J. & Bro., books and binding,	55.17	
Kempton, F. A. Est., land rent,	75.00	
Kennedy, M. F., casks,	28.20	
Lowe, S. C., plumbing,	40.53	
McCabe, John, care of lights,	19.92	
Mercury Publishing Co., advertising,	39.32	
N. B. Gas Light Co.,	64.34	
N. B. Steam Carpet Beating Establishment,	1.32	
N. B. Water Works, service,	114.46	
Old Colony R. R. Co., freight,	49.13	
Parker, Dr. E. M., professional services,	16.00	
Perkins & Chase, concreting,	1,075.30	
Perry, S. F. & Son, carriage hire,	21.50	
Police Department, specials,	52.35	
Richards, George D.,	5.25	
Richmond, S. P. & Co., food for laborers,	2.00	
Russell, Pardon, Jr., ice,	18.40	
Sawyer, S. P., labor,	46.59	
Sheldon, Thomas, care of lights,	.54	
Sherman, C. R. & Son, keys and labor,	49.66	
Sisson, O. A., care of lights,	19.26	
So. Mass. Telephone Co.,	132.95	
Stetson, T. M., land rent,	10.00	
Sullivan, D. J., repairing clock,	1.00	
Wordell, Silas, pigs,	15.00	7,828.95
		$103,895.66
To transfer to Harrington School—House and Lot,		3,393.83
		$107,289.49

Cr.

By appropriation, general,	$77,000.00	
" special,	5,500.00	
Cash receipts, as per Treasurer's report,	24,789.49	$107,289.49

INCIDENTALS.

Dr.

Advertising and Printing:		
Anthony, E. & Sons,	$2,408.47	
Boston Advertiser,	12.00	
Evening Telegram,	10.50	
Howland, Paul, Jr.,	55.25	
Mercury Publishing Co.,	203.94	
Raymond, E. P.,	29.74	$2,719.90
Assessors:		
Anthony, E. & Sons, advertising and printing,	$21.00	
Baylies, Clifford, clerical help,	23.75	
Bliss & Nye, duster,	4.25	
Dews, Edwin, stationery,	1.59	
Doyle, James, assistant assessor,	115.75	
Kane, D. J. & Bro., books,	95.50	
Mercury Publishing Co.,	72.81	
Mills, M. T., assistant assessor,	325.50	
Paul, Frank, assistant assessor,	125.25	
Pierce, E. M., carriage hire,	15.00	
Perry, S. H., assistant assessor,	76.25	
Reynolds, E. G., carriage hire,	5.00	
Rodgers, J. H., assistant assessor,	66.00	
Russell, W. A., interpreter, feeding horse, &c.,	5.25	
Sherman, C. R. & Son, stationery,	13.30	
Sherman, W. H., carriage hire,	6.00	
Tinkham, Otis, assistant assessor,	223.25	
Topham, R. R., clerical help,	334.25	
Tuell, C. A., clerical help,	277.50	
Willcox, D. B., paid for cleaning,	3.50	1,810.70
Board of Health:		
Anthony, E. & Sons, advertising and printing,	$125.79	
Ashley, Dr. D. C., inspections,	10.00	
Ashley, I. L., carriage hire,	6.00	
Board of Health, office expenses,	27.17	
Bradley, W. E., carriage hire,	6.00	
Brownell, H. M., carriage hire,	2.50	
Cassidy, George G., nursing,	276.50	
Amount carried forward,		$4,530.60

Amount brought forward,		$4,530.60
Central Union Association, sulphur,	$11.27	
Cook, T. W., services,	335.87	
Dews, Edwin, books and stationery,	114.55	
Douglass, F. M., disinfectants, &c.,	81.85	
Gammons, E. H., abating nuisances,	9.00	
Hadley, F. R., sundries,	36.02	
Hathaway, J. C., removing night soil,	2 25	
Hathaway, Nathaniel, expenses,	10.00	
Hayes, N. P., hardware,	1.25	
Hornblower, Dr. W. H., inspections,	33.00	
Kane, D. J. & Bro., books,	48.50	
King, W. H.,	5.00	
Lawton, C. H. & H. A., medicines, &c.,	5.50	
Mercury Pub. Co., advertising and printing,	70.62	
Purrington, Frank,	15.25	
Raymond, E. P., advertising,	4.12	
Richards, George D., brush, &c.,	.70	
Richardson, L. H., inspector of plumbing,	130.11	
Sherman, C. R. & Son, stationery, &c.,	10.35	
Swift, Dr. W. N., post-mortems,	71.00	
Wood, Brightman & Co., drainage,	178.33	1,628.50
Damages and Legal Expenses:		
Ashley, A. Davis,	$145.50	
Barry, Richard,	50.00	
Brady, J. W.,	18.25	
Brownell, Ashley & Co.,	19.43	
Brownell, H. M.,	250.00	
Burke, Mary, administratrix,	503.00	
Caswell, N. H.,	107.00	
City Treasurer, witness fees,	10.56	
Clifford, C. W.,	100.00	
Coggeshall, J. H.,	187.15	
Cook, J. S.,	200.00	
Cook, T. W.,	50.00	
Driscoll, D. E.,	66.80	
Gero, Mary,	253.00	
Harrington, D. D.,	20.25	
Hart, S. C.,	33.20	
Harwood, John,	25.00	
Hough, Drs. G. T. & G. de N.,	25.00	
Hourihan, Margaret,	253.00	
Amount carried forward,		$6,159.10

Amount brought forward,		$6,159.10
Knowlton, H. M.,	$200.00	
Livermore & Fish,	265.93	
McCarty, Daniel,	55.95	
McFarlin, James,	99.31	
McNamara, Stephen,	114.25	
McQuade, Bernard,	387.00	
Perry, A. E.,	251.94	
Pope, Thomas, Jr.,	199.00	
Presbrey, Dr. S. B.,	15.00	
Shepherd, Annie L.,	841.78	
Smith, Richard,	83.75	
Snow, Loum, trustee,	694.27	
Snow, Loum & Son,	33.54	
Swift, Dr. W. N.,	10.00	
Thompson, J. D.,	1,554.76	
Viall, S. T.,	118.00	
Viall, W. G.,	56.00	7,297.62
ELECTIONS:		
Anthony, E. & Sons, advertising and printing,	$391.31	
Ashley, I. L., carriage hire,	18.00	
Baylies, Clifford, clerical help,	21.00	
Bradley, W. E., carriage hire,	6.00	
Briggs, C. F., rent,	50.00	
Brownell, H. M., carriage hire,	8.00	
Chamberlin, N. S. & Co., repairing boxes,	10.00	
Corson, T. S., coal,	1.75	
Dews, Edwin, books, &c.,	57.12	
Dimond, H. C. & Co., stamp ribbon,	1.04	
Douglass, A. R., posting notices,	19.00	
Faunce, L. H., rent of shop,	40.00	
Faunce, L. H., fuel,	1.00	
Hayden, Eugene, carriage hire,	3.00	
Jason, A. V., labor,	10.00	
Jones, I. M., labor,	10.50	
King, P. H., carriage hire,	9.00	
Mercury Publishing Co., advertising,	369.35	
Perry, S. F. & Son, carriage hire,	9.00	
Pierce, C. E., tally books,	15.50	
Piper, A. D., labor,	17.50	
Piper, J. Arthur, posting notices,	7.00	
Precinct officers,	484.00	
Amount carried forward,		$13,456.72

Amount brought forward,		$13,456.72
Raymond, E. P., advertising,	$135.75	
Reynolds, E. G., carriage hire,	12.00	
Richards, George D., mats, brush, &c.,	3.45	
Richards, W. D., carriage hire,	6.00	
Saxon, George E.,	24.00	
Sherman, W. H., carriage hire,	12.00	
So. Mass. Telephone Co.,	70.00	1,822.27
FOURTH OF JULY:		
Almy, J. T., badges,	$12.00	
Andrews, F. W., use of saddle,	2.00	
Anthony, E. & Sons, advertising,	60.06	
Ashley, C. S., expenses,	40.15	
Ashley, I. L., horse hire,	37.00	
Ashley, J. B., Jr., horse hire,	5.00	
Barnes, Isaac, ringing bell,	3.00	
Bartel, Leopold, expenses,	33.20	
Blackmer, A. L., prize,	6.00	
Bliss & Nye, mugs, &c.,	4.57	
Bliss, W. H., use of horse,	5.00	
Bradley, W. E., carriage,	5.00	
Brownell, H. M., carriage hire,	14.00	
Carroll, W. E., ringing bell,	3.00	
Caswell, A. R., use of horses,	10.00	
Chase, H. S., relief drummer,	5.00	
Clough, George H., use of horse,	5.00	
Cornell, C. R., use of horse,	6.00	
Covil, A. E. & Son, lemons,	30.00	
Co. "E" Fife and Drum Corps,	112.50	
Cranston, J. Miller, use of boat, &c.,	2.00	
Crapo, George, use of horses,	4.00	
Cronin, William, saddle girth,	2.00	
Davenport, Dudley, use of horses,	10.00	
Ellis, C. E., use of horse,	5.00	
Ellis, L. B., prize,	14.00	
Fire Department,	320.00	
French American Band,	200.00	
Giles, Gerett, use of horse,	5.00	
Gomley, J. A., carting,	5.00	
Guinn's Fife and Drum Corps,	48.00	
Haskell & Tripp, badge pins,	6.00	
Hayden, Eugene, horse,	5.00	
Amount carried forward,		$15,278.99

Amount brought forward,		$15,278.99
High School Drum Corps,	$48.00	
Hines, Henry, ringing bell,	3.00	
Hines, Henry S., use of saddle,	1.00	
Holcomb, Monroe, sugar,	7.60	
Howland, A. T., "drum-major,"	5.00	
Hyde & Co., fireworks,	487.02	
Jenney, P. P. & Son, labor,	62.13	
Jennings, J. I., medals,	22.00	
Johnson & Howland, damages,	12.89	
Kenyon, H. W., use of horse,	5.00	
Lawrence, C. E., lettering signs,	1.75	
Manchester, F. W., ice,	1.50	
Marshall's Drum Corps,	75.00	
Marston, E. W., prize,	3.00	
Mercury Publishing Co.,	64.85	
Morris, J. N., use of horse,	5.00	
Needham, George, chiming bells,	6.00	
New Bedford Band,	240.00	
Patnaude, J. C., building arch,	25.00	
Perry, S. F. & Son, carriage hire,	8.00	
Peirce, E. M., horse hire,	24.75	
Peirce, S. D. & Co., prizes,	26.40	
Pierce & Kelley, advertising,	5.00	
Piper, A. D., labor,	10.00	
Piper, J. Arthur, labor,	3.00	
Prizes, cash,	500.00	
Reynolds, E. G., horse hire,	40.00	
Richards, George D., horse hire,	5.00	
Richards, W. D., horse hire,	5.00	
Richmond, S. P., sandwiches,	15.00	
Robenolt, E. S., ringing bell,	3.00	
Robert Emmet Drum Corps,	75.00	
Robinson, William, ringing bell,	3.00	
Russell, J. A., advertising,	5.00	
Sherman, J. L. & Co., lumber,	2.87	
Sherman, T. E., badges,	4.00	
Sherman, W. H., horses,	10.00	
Sherman & Purrington, badges,	6.85	
Simmons, Geo. W. & Co., use of equipments and chapeaux,	41.50	
Smith, Hoyland, prize,	9.00	
Smith, John, use of horses,	10.00	
Amount carried forward,		$15,278.99

Amount brought forward,		$15,278.99
Spooner, E. F., use of horse,	$5.00	
Stanton, H. H., agent, prize,	10.00	
Sullings, Kingman & Co., lantern globes,	3.00	
Sullivan, D. J., prize,	10.00	
Taber, O. R. & Son, lemon juice,	2.40	
Tillinghast, W. A., lumber,	12.98	
Upion Veteran Legion, firing salute,	91.00	
Warfield, James, ringing bell,	3.00	
Williams, A., ringing bell,	3.00	
Wood, E. B. & Son, carriage hire,	2.00	
Woodward, W. H., ringing bell,	3.00	
Wright, J. A., sugar,	11.25	
Wyman, Dr. A. F., prizes,	9.00	3,078.22
LABOR AND CLEANING:		
Douglass, A. R.,	$452.15	
McAuliffe, D. J.,	625.00	
Perry, Joseph,	6.00	
Piper, A. D.,	147.75	
Piper, J. Arthur,	23.00	
Toney, C. H.,	19.50	1,173.40
LIGHT AND FUEL:		
Corson, T. S.,	$799.92	
Edison Electric Ill. Co.,	1,636.84	
Hart & Akin,	3.75	
New Bedford Electric Light Co.,	50.00	
New Bedford Gas Light Co.,	554.17	
Notter, John,	1.75	
Phillips, Lawson,	60.12	3,106.55
BIRTH, MARRIAGE, AND DEATH RETURNS:		
Brownell, Dr. W. E.,	$15.00	
Hanlon, Mrs. Mary,	2.75	
Hayes, Dr. S. W.,	52.50	
Hough, Dr. G. T.,	7.00	
Jean, J. B.,	23.00	
Kingman, J. H.,	4.00	
Leonard, D. B.,	699.55	
Leonard, Dr. M. H.,	47.25	
Murphy, T. J.,	43.50	
Amount carried forward,		$22,637.16

Amount brought forward,		$22,637.16
Normandin, Dr. L. Z.,	$43.75	
Perry, Dr. E. B.,	2.50	
Peterson, Dr. A. B.,	2.00	
Pierce, Dr. A. M.,	20.00	
Richardson, S. E.,	1.75	
Swift, Dr. W. N.,	10.50	
Vaughan, W. C., Jr.,	37.25	
Webber, Dr. A. P.,	3.75	
Webster, Dr. H. W.,	14.00	
Williams, J. S.,	22.00	
Wilson, E. T.,	110.25	1,162.30
INSPECTOR OF MILK AND PROVISIONS:		
Anthony, E. & Sons,	$19.78	
Brownell, H. M., carriage hire,	6.00	
Case, C. A., soap,	.60	
Coggeshall, Maxfield & Co., teakettle,	1.00	
Corson, T. S., coal,	11.76	
Dews, Edwin, stationery,	18.65	
Hadley, F. R.,	.75	
Hathaway, Nathaniel, analyses,	10.00	
International Express Co.,	3.25	
Maine, H. M., beating carpet,	1.57	
Mercury Publishing Co.,	9.86	
New Bedford Gas Light Co.,	10.81	
Richards, W. D., carriage hire,	19.50	
So. Mass. Telephone Co.,	35.00	
Waite, B. H., office rent,	132.00	
Waite, B. H., rug, &c.,	4.25	
Wood, E. B. & Son, carriage hire,	60.50	345.28
MISCELLANEOUS:		
Acushnet Iron Co., castings,	$25.00	
Allen, Jesse, straps,	5.83	
Almy & Hitch, decoration for Sheridan,	14.60	
Ashley, C. S., expenses of committee,	40.00	
Ashley, I. L., carriage hire,	33.00	
Assessors, making out tax bills,	75.00	
Austin, J. H. C., delivering summonses,	22.50	
Baylies, Clifford, clerical help,	413.00	
Baylies, Clifford, repairing clocks,	3.00	
Amount carried forward,		$24,144.74

Amount brought forward,		$24,144.74
Bliss & Nye, pitchers, &c.,	$3.05	
Boston Advertiser, subscription,	12.00	
Briggs & Lawrence, furniture,	65.85	
Brightman & Washburn, carpentry,	.85	
Brownell, H. M., carriage hire,	137.85	
Co. "E" Fife and Drum Corps, services,	4.00	
Coggeshall, Maxfield & Co., iron boxes and labor,	70.60	
Com. of Mass., interest on Temporary Loan,	575.00	
Cook, T. W., expenses to Washington,	100.00	
Crapo, Peter, use of horses,	11.30	
Cummings, C. S. & B., soap, matches, &c.,	20.55	
Denison & Brown, ink,	6.75	
Devoll, George H., painting,	8.55	
DeWolf & Vincent, hardware,	12.45	
Dews, Edwin, books, stationery, and binding,	657.85	
Dexter, T. D., pole for gun carriage,	6.50	
Diman, F. L., music at Sheridan Memorial,	56.00	
Dimond, H. C. & Co., stamp,	3.75	
Doran, William, steps,	45.00	
Douglass, F. M., soap, &c.,	6.22	
Doyle, James, delivering tax bills,	32.50	
Drake, A. B., surveys, plans, &c.,	2,855.32	
Durfee, E. M., labor,	2.53	
Expenses of city offices,	790.05	
Fire Department, repairing reservoirs,	405.67	
Fox, G. L., agent, type-writer ribbon,	2.00	
Freeman, George H., ink,	2.25	
Gifford's Brass Foundry, castings,	17.11	
Gifford, F. S., soap, matches, &c.,	15.70	
Grand Army Posts, award,	400.00	
Grinnell, A. B., care of lot,	3.00	
Gray, Chas. A., carting,	.25	
Hadley, F. R., sundries,	3.10	
Hatch, George E., repairing furnace,	8.85	
Hathaway, L. J., labor,	.75	
Hayes, N. P., hardware,	24.88	
Hillman, Jethro, carpentry,	27.77	
Howard, W. M., care of lots,	24.84	
Howland, Jonathan, Jr., care of lot,	4.21	
Hutchinson, H. S. & Co., books,	64.22	
Interest on Temporary Loan,	5,965.60	
Jenkins, B. S., painting signs,	4.65	
Amount carried forward,		$24,144.74

Amount brought forward,		$24,144.74
Jenney, P. P. & Son, street signs and guide boards,	$421.29	
Kane, D. J. & Bro., books and binding,	265.90	
Kempton, David, 2d, Est., rent,	75.00	
Kent, J. D. T., labor,	2.50	
Kirby, George, Jr. & Co., paint,	15.50	
Lawton, J. M., Jr., books,	10.00	
Lowe, S. C., paint,	14.60	
Maine, H. M., beating carpet,	6.91	
Maxfield & Peirce, tin box,	2.60	
Mills, M. T., delivering tax bills, &c.,	41.25	
Moore, George, cotton,	.72	
Morgan, Crossman & Co., numbering machine,	30.20	
N. B. Band, services,	8.00	
N. B. Gas Light Co., rent, &c.,	28.06	
N. B. Ice Co., cold pieces,	59.60	
Old Colony R. R. Co., tickets,	23.00	
Old Colony R. R. Co., sewer privilege,	200.00	
Old Colony R. R. Co., gateman at Sawyer street,	313.00	
Paul, Frank, delivering tax bills,	50.00	
Peirce, E. M., carriage hire,	3.00	
Perry, S. F. & Son, carriage hire,	13.00	
Perry, S. H., delivering tax bills,	27.50	
Phillips, H. T., charcoal inspector,	10.00	
Proprietors of Ricketson Block, armory rent,	750.00	
Purrington & Brown, cuspadores, &c.,	5.00	
Richards, George D., dusters, brooms, &c.,	45.61	
Rodgers, J. D., delivering tax bills,	30.00	
Russell, C. C., clerical help,	20.17	
Russell, C. D'O., lettering signs,	9.50	
Russell, C. D'O., painting armory,	64.12	
Russell, W. A., clerical help,	35.00	
Sewer Tax,	53.34	
Sherman, C. R. & Son, stationery,	149.67	
Sherman, Ruth S., assistant to City Clerk,	525.00	
Sherman, W. H., carriage hire,	9.00	
Sisson, A. B., rent of rifle range,	35.00	
Smith Bros., tumblers,	.75	
Snow & Gilbert, painting guns,	18.00	
Soule, W. T., towels,	3.00	
So. Mass. Telephone Co.,	460.63	
Supt. Burial Grounds, care cemetery lots,	203.51	
Taber & Pope, carpentry,	257.89	
Tinkham, Otis, delivering summonses,	57.50	
Amount carried forward,		$24,144.74

Amount brought forward,		$24,144.74
Topham, R. R., clerical help,	$270.25	
Tripp, Mrs. James, sewer tax returned,	14.54	
Tripp, S. A., tin boxes,	16.00	
Tripp, T. B. & Beetle, appraisers,	45.00	
Tripp, T. B.,	5.00	
Tuell, C. A., delivering tax bills,	25.00	
Tuell, C. D., delivering summonses,	35.00	
Union Veteran Legion, salute for Sheridan,	125.00	
Washburn, W. H., lumber,	128.92	
Watson, R. R. & Co., file boxes,	67.05	
West, W. R., lettering street signs,	610.85	
Western Union Telegraph Co.,	2.09	
White, A. A. & Co., stamp,	9.60	
Willcox & Richmond Wharf,	150.00	
Willcox, D. B., assessing sewers,	80.00	
Wilson, George, care cemetery lot,	52.00	
Wood, E. B. & Co., carriage hire,	50.00	
Young, W. S., masonry at armory,	31.50	19,163.42
		$43,308.16
1889, Jan. 7. To balance,		120.00
		$43,428.16

Cr.

By appropriation,	$15,710.00	
Transfers from:		
Engine House and Lot, Durfee Street,	21.35	
Public Schools, Repairs of Buildings,	358.56	
Salaries,	210.47	
Sewers, General Account,	1,881.61	
" Collins Street,	43.05	
" Pearl and Willis Streets Extension,	759.95	
" Rivet Street No. 2,	119.12	
" Mt. Pleasant Street,	159.79	
Unappropriated Funds,	23,558.81	
By appropriations, special,	550.00	
By cash receipts, as per Treasurer's report,	55.45	$43,428.16

Cr.

1889, Jan. 7. By balance,	$120.00

NEW BEDFORD AND FAIRHAVEN BRIDGE.

Dr.

Bowen, George S. & Son, brooms,	$5.40	
Chase, Abraham, labor,	12.00	
Driggs, J. D., iron work,	16.28	
Duddy, James, carting,	20.75	
Duff, David & Son, coal,	8.00	
Duff, David & Son, paving stone,	20.00	
Greene & Wood, lumber,	88.35	
Hillman, Jethro, carpentry,	446.64	
Jenney, P. P. & Son, labor,	.82	
Luce, F. C., iron work,	3.25	
Macy, E. B., iron work,	11.21	
Nicholson, J. B., draw tender,	600.00	
Perkins & Chase, gravel,	29.20	
Russell, Luther, salt,	1.60	
Sherman, J. H., stove and fitting,	10.96	
Smith & Gurney, blacksmithing,	12.94	
Street Department, stock, labor, &c.,	113.25	
Sturtevant & Parker, painting,	12.26	
Tillinghast, W. A., lumber,	159.15	
Tripp, S. A., lead pipe, &c.,	.85	$1,572.91

Cr.

By appropriation,	$1,000.00	
Special appropriation,	500.00	
Transfer from Poor Department,	72.91	$1,572.91

NEW BEDFORD SCHOOL COMMITTEE.

(HOWLAND FUND.)

DR.

Ambrose, F. M., books,	$44.00
Anthony, E. & Sons, reward cards,	6.00
Allen, George M., express,	2.80
Appleton, D. & Co., books,	2.63
Allen, Charles R., express,	.25
Boden, E., Jr., organ, piano covers, etc.,	89.60
Boston School Supply Co., books and charts,	57.00
Balch Bros. & Graham, books,	42.00
Cyclostyle Co., ink, pens,	14.00
Cowperthwait & Co., books,	11.25
Chase, W. I., periodicals,	11.00
Chase, J. Eastman, pictures,	6.00
Carson, C. J. R., service on telescope,	5.00
Doll & Richards, pictures,	76.50
Dunton & Clark, pictures,	6.40
Ditson, Oliver & Co., music books,	4.00
Edwards, A. M. & Co., language charts,	70.50
Eastern Educational Bureau, maps,	98.80
Edison Electric Illuminating Co., regulator,	46.00
Educational Publishing Co., periodicals,	24.75
Ellis, L. B., framing pictures,	15.25
Ginn & Co., books,	127.00
Gammons, Lottie M., covering books,	24.60
Gray, Charles A., freight and carting,	2.04
Greeley, E. S. & Co., paste,	1.48
Hutchinson, H. S. & Co., books, supplies, &c.,	293.41
Hayes, N. P., scissors,	40.00
Holden Book Cover Co., patent covers,	24.48
Haskins, E. P., object supplies,	22.50
Heath, D. C., books and maps,	16.75
Hatch & Co., express,	16.27
Hume, Harrison, singing books,	16.10
Hatch, Wm. E., books,	10.00
Haskell & Tripp, plush,	2.41
Interstate Publishing Co., books,	7.71
Kane, D. J. & Bro., binding books,	70.75
Kellogg, E. L. & Co., periodicals,	.75
Lee & Shepard, books,	73.75
Lawton, James M., Jr., piano cover,	12.00

Leach, Shewell & Sanborn, books,	$4.34	
Merrick, Emma J., covering books,	21.55	
Martin, Garrison & Co., books,	15.00	
McFarlin, Jas., moving piano,	9.00	
Mason, Perry & Co., periodicals,	3.12	
Noyes, Cobb & Co., pictures,	13.50	
Peirce, George, care of pianos and organs,	363.00	
Perry, George S., paper and object supplies,	58.20	
Prang Educational Co., charts, &c.,	38.37	
Paine, S. S. & Bro., clay,	5.20	
Ritchie, E. S. & Son, apparatus,	40.87	
Silver, Burdett & Co., singing books,	152.68	
Silver Rogers & Co., music charts,	16.67	
Stockin, A. C., books,	15.00	
Schoenhof, Carl, books,	14.83	
Sweet, Kate, covering books,	11.45	
Small, Willard, books,	8.73	
Sullings, Kingman & Co., supplies,	3.14	
Ticknor & Co., books,	61.03	
Tompkins, I. B., Jr., pictures,	9.00	
Tripp, S. A., object supplies,	3.00	
Whiting, Charles H., books,	88.13	
Ware, William & Co., books,	12.00	$2,363.54
1889, Jan. 7. To balance,		2,896.66
		$5,260.20

CR.

1888, Jan. 5. By balance,	$2,260.20	
By income from educational bequest of Sylvia Ann Howland,	3,000.00	$5,260.20

CR.

1889, Jan. 7. By balance,	$2,896.66

NEW BEDFORD SCHOOL COMMITTEE.

(JONATHAN BOURNE PRIZE FUND.)

Dr.

John Eldridge, Jr., chairman, for prize,	$43.17	
1889, Jan. 7. To balance,	30.00	$73.17

Cr.

1888, Jan. 5. By balance,	$13.17	
By cash receipts, as per Treasurer's report,	60.00	$73.17

Cr.

1889, Jan. 7. By balance,	$30.00

LIGHTING THE STREETS.

Dr.

Anthony, E. & Sons, advertising,	$5.62	
Coggeshall, C. W., paid for trimming trees,	1.00	
Globe Gas Light Co., naphtha lights,	9,019.68	
Kempton, F. A., Est., land rent,	25.00	
Mercury Publishing Co., advertising,	6.25	
N. B. Electric Light Co., arc lights,	1,350.00	
N. B. Gas Light Co., arc lights,	6,825.00	
N. B. Gas Light Co., gas lights,	10,337.91	
N. B. Gas Light Co., lamp cocks,	59.40	
N. B. Gas Light Co., moving arc lights,	50.00	
Paisler, C. S., storing lanterns,	27.00	
Wood, E. B. & Son, carriage hire,	15.00	$27,721.86

Cr.

By appropriation,	$27,000.00	
Transfer from Unappropriated Funds,	721.86	$27,721.86

POLICE DEPARTMENT.

Dr.

Pay-Rolls:		
Pay of regular officers,	$52,979.99	
Pay of special police,	3,470.10	$56,450.09
Light and Fuel:		
Corson, T. S.,	$391.82	
Crapo's Steam Mill,	12.30	
Edison Electric Illuminating Co.,	54.55	
Hart & Akin,	.90	
N. B. Gas Light Co.,	410.15	869.72
Expense Committing Prisoners:		
Ashley, I. L.,	$70.15	
Bradley, W. E.,	61.85	
Brown, J. A.,	45.95	
Brownell, H. M.,	82.10	
Brownell, J. F.,	132.65	
Butler, D. A.,	5.25	
Caswell, A. R.,	5.00	
Cornell, C. R.,	57.50	
Cornell & Swift,	59.10	
Dayton, L. M.,	39.30	
Dowden, James,	4.50	
Dwelley, Andrew,	.70	
Hayden, Eugene,	63.15	
Howland, T. D.,	2.50	
Humphrey, D. J.,	1.90	
Jay, James A.,	213.05	
Jones, A. H.,	6.50	
Parker, J. C.,	15.80	
Peirce, E. M.,	70.80	
Perry, S. F. & Son,	51.55	
Pierce, J. H.,	2.00	
Richards, W. D.,	156.20	
Sherman, W. H.,	46.65	
Sisson, J. DeL.,	4.00	
Wing, Jos. B.,	1.35	
Wood, E. B. & Son,	17.50	1,217.00
Amount carried forward,		$58,536.81

Amount brought forward,		$58,536.81
FOOD, MEDICINE, AND ATTENDANCE:		
Fisher, H. H., crackers,	$12.41	
Hadley, F. R., Jamaica ginger,	12.25	
Hayes, Dr. S. W., attendance,	31.00	
Hough, Dr. G. T.,	4.20	
Howland, Dr. B. C.,	8.00	
Lawton, C. H. & H. A., medicines,	8.48	
Leonard, Dr. M. H.,	13.00	
Milliken, E. C.,	2.88	
Perry, Dr. E. B.,	1.50	
Richmond, S. P. & Co., crackers,	16.64	
Ripley, C. W., food,	238.10	
Young, Mrs. Emma, food,	34.25	382.71
MISCELLANEOUS:		
Anthony, E. & Sons, advertising, &c.,	$63.56	
Bliss & Nye, dusters, mats, &c.,	39.82	
Briggs & Lawrence, furniture,	9.25	
Briggs, D. D., police signal,	4.73	
Butler, D. A., keeper of lockup,	100.00	
Case, E. T., janitor,	732.00	
Caswell, W. H., painting,	1.88	
Coggeshall, Maxfield & Co., plumbing,	45.89	
Corey, John, expenses,	280.03	
Desmond, T. F., legal services,	10.00	
DeWolf & Vincent, hardware,	3.63	
Dews, Edwin, books, stationery, and papers,	61.39	
Doane, R. N. B., photographs,	4.00	
Driscol, Church & Hall, matches, soap, &c.,	22.43	
Ellis, L. B., frames,	3.90	
Evans, D. & Co., buttons,	53.00	
Evening Telegram, advertising,	7.00	
Folger, D. B., blacking, brushes, brooms, &c.,	26.63	
Geils, Gerett, furniture,	39.40	
Gifford's Brass Foundry, plumbing,	5.47	
Gifford, G. D., sail boat,	55.00	
Gifford, O. E., painting,	5.20	
Gifford, T. J. & Co., plumbing,	21.86	
Hatch, W. W.,	3.40	
Hathaway, D. L., carpentry,	4.13	
Hathaway, Nathaniel, analysis,	3.00	
Hutchinson, H. S. & Co., book,	2.10	
Kane, D. J. & Bro., books,	14.75	
Amount carried forward,		$58,919.52

Amount brought forward,		$58,919.52
Kelley, W. L., repairing clocks,	$7.60	
Kempton, F. A., Est., land rent,	25.00	
Lerned, C. W. & Co., disinfectant,	23.70	
Martin, H. F., labor,	5.00	
Maxfield & Peirce, furniture,	7.17	
Mercury Publishing Co., advertising,	22.31	
Moore & Diman, bedding and cloth,	8.54	
N. B. Boiler & Machine Co.,	86.61	
Peirce, S. D. & Co., gloves,	7.20	
Richards, George D., steps,	.85	
Sherman, C. R. & Son, stationery, &c.,	9.00	
Sisson, J. DeL., Jr., boatman,	75.00	
Slocum, F. R., furniture,	4.75	
Snow & Gilbert, painting,	2.65	
Soule, W. T., blankets, &c.,	28.97	
So. Mass. Telephone Co.,	285.75	
Sowle, F. A.,	.45	
Street Department, cinders,	19.65	
Sullings, Kingman & Co., hardware,	2.78	
Sullivan, D. J., repairing clock,	.75	
Taber & Pope, carpentry,	28.40	
Taber, R. A., masonry,	14.70	
Thomas, George, ice,	49.50	
Tripp, S. A., repairing stoves,	37.45	
Viall & Cook, rent women's station,	216.71	
Wade, J. B., oil stove,	2.92	
Watson, E. G., repairing clubs,	20.00	
Wilber, J. L., expenses,	46.40	
Willis, W. H., repairing bridle,	.75	
Wing, C. F., carpet,	17.05	
Winship, H. A., horse equipments,	46.00	
Wood, Anna G., land rent,	20.00	
Wood, R. B., carpentry,	20.26	
Wood, Brightman & Co., plumbing,	13.61	2,780.93
		$61,700.45

Cr.

By appropriations, general,	$46,000.00	
Appropriations, special,	8,900.00	
Transfer from Unappropriated Funds,	1,264.33	
Cash receipts, as per Treasurer's report,	5,536.12	$61,700.45

PUBLIC SCHOOLS — PAY OF TEACHERS.

DR.

HIGH SCHOOL.

Ray Greene Huling,	$2,500.00	
Charles T. Bonney, Jr.,	1,600.00	
Charles R. Allen,	1,240.00	
Sarah D. Ottiwell,	840.00	
Elizabeth P. Briggs,	828.00	
Lydia J. Cranston,	835.20	
Mary E. Austin,	840.00	
Lucretia N. Smith,	840.00	
Emma H. Wheeler,	676.00	
Emma K. Shaw,	559.20	
Mabel A. Washburn,	128.00	$10,886.40

GRAMMAR SCHOOLS.

FIFTH STREET:

Allen F. Wood,	$1,740.00	
Mary A. Kane,	550.00	
Sarah A. Carr,	315.50	
Sarah E. Stoddard,	550.00	
Mary E. Allen,	550.00	
Emma J. Ashley,	330.00	
Sarah W. Almy,	220.00	
Lydia A. Macreading,	514.00	
Lizzie B. Brightman,	550.00	
Katharine N. Lapham,	326.00	
Helen L. Hadley,	550.00	
Jeannette Hunter,	548.00	
Helena Kennedy,	487.00	
Lucy B. Fish,	204.75	
Lena A. Chubbuck,	200.00	7,635.25

MIDDLE STREET:

George H. Tripp,	$1,740.00	
Kate Commerford,	550.00	
Mary R. Hinckley,	548.00	
Agnes J. Dunlap,	548.00	
Amount carried forward,		$18,521.65

Amount brought forward.		$18,521.65
Clara S. Vincent,	$550.00	
Hattie F. Hart,	544.00	
Mabel W. Cleveland,	550.00	
Lucy B. Fish,	330.25	
Mary G. Bonney,	300.00	
Clara B. Watson,	520.00	
Maria B. Clarke,	489.00	6,669.25
PARKER STREET:		
Charles E. E. Mosher,	$1,740.00	
Eliza J. D. Shepherd,	522.00	
Martha A. Hemenway,	550.00	
Helen M. Gordon,	550.00	
Sarah L. Spare,	548.00	
S. Flora Spare,	548.00	
Anna L. Jennings,	550.00	
Mary A. Codding,	330.00	
Emma A. McAfee,	550.00	
Annie W. Braley,	550.00	
Josephine Almy,	528.00	
Emma C. Nash,	535.00	
May L. Pettey,	460.00	
Mary E. Sturtevant,	200.00	
Lizzie E. Omey,	109.00	8,270.00
THOMPSON STREET:		
George Rugg,	$540.00	
Katharine N. Lapham,	279.00	
Mary A. Macy,	540.00	
Abby F. Sullivan,	550.00	
Sarah W. Almy,	330.00	
Chella F. Carpenter,	180.00	2,419.00
PRIMARY SCHOOLS.		
THOMPSON STREET:		
Helen C. Allen,	$525.00	
Annie C. O'Connor,	474.20	
Helen J. Kirk,	475.00	
Grace H. Potter,	435.00	
Sarah A. Winslow,	272.00	2,181.20
Amount carried forward,		$38,061.10

Amount brought forward,		$38,061.10
LINDEN STREET:		
Elizabeth P. Spooner,	$550.00	
Lucy S. Leach,	474.20	
Isabella Luscomb,	475.00	
Mary E. Sturtevant,	285.00	
Lizzie E. Omey,	34.00	
Isadora Foster,	149.62	1,967.82
MERRIMAC STREET:		
Sarah H. Hewins,	$548.40	
Addie West,	475.00	
Isadora Foster,	323.78	
Hattie S. Damon,	435.00	1,782.18
MAXFIELD STREET:		
Mary B. White,	$550.00	
Sarah E. Field,	475.00	
Annie E. Pearce,	470.20	
Bessie P. Nash,	460.00	1,955.20
CEDAR STREET:		
Annie S. Homer,	$507.45	
Abby D. Whitney,	473.39	
Emma B. Allen,	473.39	
Willetta B. Nickerson,	451.99	
Annie L. Edwards,	435.00	2,341.22
ACUSHNET AVENUE:		
Jane E. Gilmore,	$550.00	
Sarah E. Kirwin,	475.00	
Susan M. Lucas,	407.92	
Mariana N. Richmond,	475.00	
Emma B. McCullough,	385.00	
Carrie S. Silva,	385.00	
Lizzie E. Omey,	240.00	2,917.92
KEMPTON STREET:		
Eleanor Commerford,	$550.00	
Bessie P. Peirce,	475.00	
Kate E. Cleary,	475.00	
Ida G. Howard,	470.20	1,970.20
Amount carried forward,		$50,995.64

Amount brought forward,		$50,995.64
WILLIAM STREET:		
Abby F. Bryant,	$330.00	
Amelia Lincoln,	475.00	
Mary J. Graham,	475.00	
Clara C. M. Gage,	435.00	
Sara L. Tallman,	8.00	
Nancy H. Brooks,	180.00	1,903.00
FOURTH STREET:		
Sarah H. Cranston,	$550.00	
Eliza H. Sanford,	475.00	
Sarah E. Sears,	475.00	
Nancy H. Brooks,	296.87	
Annie L. Macreading,	410.00	
Lillie C. Tillinghast,	192.00	
Sarah A. Winslow,	4.80	
Alice A. Taylor,	80.00	2,483.67
DARTMOUTH STREET:		
Isadore F. Eldridge,	$549.20	
M. Eva Schwall,	475.00	
Sarah H. Kelley,	447.00	
Annie M. Carpenter,	466.99	
Chella F. Carpenter,	78.40	
Lillie C. Tillinghast,	110.40	2,126.99
GROVE:		
Jane C. Thompson,	$550.00	
Sarah E. Tuell,	473.40	
Hattie L. Finlan,	475.00	
Nellie W. Davis,	475.00	
Mary Barstow,	385.00	2,358.40
CEDAR GROVE STREET:		
Lucy F. Clarke,	$534.00	
Carrie A. Shaw,	399.80	
Flora E. Estes,	435.00	
Emily A. Delano,	410.00	
Annie G. Brawley,	292.00	2,070.80
Amount carried forward,		$61,938.50

Amount brought forward,		$61,938.50
ARNOLD STREET:		
Susan M. Tompkins,		575.00
MILL SCHOOLS.		
NORTH:		
Emma R. Wentworth,	$684.70	
Nannie P. Underwood,	448.80	1,133.50
SOUTH:		
Lucy J. Remington,		634.00
COUNTRY SCHOOLS.		
ACUSHNET:		
Charlotte C. Carr,	$700.00	
Selene E. Sherman,	305.00	
Belle B. Wheeler,	370.60	
Lucy D. Ashley,	64.00	1,439.60
CANNONVILLE:		
Jennie S. King,	$500.00	
Addie J. McFarlin,	460.00	960.00
CLARK'S POINT:		
Lillie B. Allen,	$300.00	
Mary E. Pasho,	150.00	450.00
NORTH:		
Mary Ashley,		535.00
PLAINVILLE:		
Ruth A. Allen,	$225.00	
Mary Chace,	190.00	415.00
ROCKDALE:		
Lillian L. Thomas,	$140.00	
Susan C. Graffam,	258.40	
Alice P. Terry,	320.00	718.40
Amount carried forward,		$68,799.00

Amount brought forward,		$68,799.00

SPECIAL TEACHERS.

DRAWING:		
Arthur J. Cumming,	$1,628.84	
Fannie E. Ashley,	94.00	1,722.84
SINGING:		
Fred L. Diman,		1,471.25
MILITARY INSTRUCTOR:		
John K. McAfee,		300.00
SEWING:		
Carrie H. Richmond,	$439.16	
Eliza A. Smalley,	247.09	
Gertrude H. Leonard,	243.71	929.96

EVENING SCHOOLS.

CEDAR GROVE STREET:		
Mrs. Ruby M. Tripp,	$150.00	
Annie G. Brawley,	78.00	
Grace Carver,	60.00	
Myra A. Leach,	60.00	
Rachel L. Denham,	56.25	
Mrs. Adaline Davis,	47.50	
Mrs. Sarah Bowen,	53.75	
Grace Covell,	52.50	
Franklin C. Tripp,	53.75	
Edmond L. Wilde,	48.75	
Annie L. Brownell,	48.75	
Ellis L. Howland,	43.75	
Nellie Cook,	46.75	
Eugenie Paull,	32.50	832.25
PARKER STREET:		
Frank T. Taylor,	$140.25	
Nathaniel W. Gifford,	240.00	
Mrs. Ruby M. Tripp,	89.25	
Sara L. Tallman,	162.00	
Lillie C. Tillinghast,	114.75	
Amount carried forward,		$74,055.30

Amount brought forward,		$74,055.30
Annie G. Brawley,	$61.50	
Abby R. Johnson,	150.00	
Annie B. Parker,	117.25	
Ida A. McAfee,	91.00	
Maud Munson,	1.25	
Mrs. M. F. Wilde,	154.50	
Lizzie E. Omey,	78.00	
Kate Sweet,	75.25	
Lucy D. Ashley,	60.00	
Anna I. Dexter,	56.25	1,591.25
CENTRAL:		
Mrs. S. W. Wilde,	$264.00	
Cora Cleveland,	168.00	
Annie L. Brownell,	11.25	
Kate Sweet,	32.50	
Edith K. Weeden,	50.00	
Lena A. Chubbuck,	30.00	555.75
MERRIMAC STREET:		
Joseph P. Kennedy,	$16.00	
Edmond L. Wilde,	5.00	
Eugenie Paull,	10.00	
Edith K. Weeden,	8.75	
Hattie S. Damon,	3.75	43.50
FIFTH STREET:		
Oliver W. Cobb,	$328.50	
Mrs. S. C. Whelden,	192.00	
Joseph P. Kennedy,	164.00	
Lena Hamblin,	60.00	
Mrs. Kate Johnson,	168.00	
Mary G. Bonney,	84.00	
Chella F. Carpenter,	76.37	
Julia A. Fay,	60.00	
Mary Crowell,	159.00	
Sarah A. Winslow,	66.00	
Alice M. Holdsworth,	118.50	
Annie F. Smith,	60.00	
Susan C. Graffam,	67.50	
Alice A. Taylor,	60.00	
Harriet S. Gardner,	60.00	1,723.87
Amount carried forward,		$77,969.67

Amount brought forward,		$77,969.67
Evening Drawing School:		
Albert B. Drake,	$104.00	
Edgar B. Hammond,	55.00	
George A. Stetson,	28.00	187.00

SUBSTITUTES.

Caroline F. Aldrich,	$132.00	
Chella F. Carpenter,	72.00	
Grace Covell,	13.20	
Grace Carver,	2.40	
Anna I. Dexter,	85.00	
Rachel Denham,	9.60	
Emily A. Delano,	1.25	
Hattie S. Damon,	3.50	
Harriet S. Gardner,	13.60	
Alice M. Holdsworth,	121.00	
Lena Hamblin,	4.00	
Mary R. Hinckley,	7.00	
Abby R. Johnson,	58.00	
Myra A. Leach,	.80	
Annie B. Parker,	28.00	
Annie F. Smith,	36.80	
Sara L. Tallman,	41.60	
Mabel Washburn,	5.60	635.35
		$78,792.02
To transfer to Public Schools, Incidentals,		2,207.98
		$81,000.00

Cr.

By appropriation,	$75,000.00	
Special appropriation,	6,000.00	$81,000.00

SEWERS—GENERAL ACCOUNT.

Dr.

Pay-rolls, labor,	$3,650.37
Anthony, C. W., dredging,	1,847.00
Babbitt, Wood & Co., valve, &c.,	4.85
Bertram, John & Co., gravel roof,	14.46
Black, Peter, labor, &c.,	47.35
Bradford, W. L., pails,	.45
Bradley, W. E., carriage hire,	1.00
Brownell, G. K., rubber boots,	17.50
Brownell, H. M., carriage hire,	2.00
Brownell & Murkland, well curb,	8.00
Caswell, N. H., blacksmith,	1.25
Caswell, O. F., sharpening tools,	1.28
City Wharf Co., storing stone,	36.50
Coggeshall, C. W., repairing blocks,	8.21
Cook, S. H., insurance,	51.00
Cornell, C. R., hacking,	2.00
Cornell, J. W., picks and hammers,	116.54
Corson, T. S., teaming,	46.75
Croacher, T. W., ladders,	4.50
Davis, C. E., diver and scow,	2,021.50
Davis, L. D., powder,	45.00
Drake, A. B., grades and plans,	241.60
Duff, David & Son, teaming,	41.00
Eggers, Selmar, powder and fuse,	5.00
Fichtenmayer & Flynn, iron work,	65.86
Fire Department, hose,	36.00
Gardner, Mrs. E. K., board of diver,	2.75
Gifford, T. J. & Co., repairing boiler,	7.89
Gray, C. A., carting,	13.25
Greene & Wood, lumber,	384.40
Grinnell, Edmund, castings,	463.05
Hart & Akin, coal,	57.48
Hart, T. M. & Co., twine,	1.42
Hathaway, A. E., sharpening tools,	217.63
Hayden, W. G., repairing pipe,	1.37
Hayes, N. P., tools,	12.60
Hillman, Jethro, carpentry,	60.15
Holmes, D. W., labor on sand-catcher,	2.45
Jay, James A., use of team,	4.95
Jenney, P. P. & Son, tools and repairs,	20.10
King, W. F., sharpening tools,	1.22

Lowe, S. C., tools,	$262.79	
Lowe & Pearsons, tools,	104.20	
Luce, F. C., iron,	1.00	
Mt. Pleasant street sewer,	205.99	
N. B. Cordage Co., rope,	40.59	
N. B. Tow Boat Co., towage,	395.00	
N. B. Water Works, pipe,	73.26	
Old Colony R. R. Co., labor, &c.,	18.44	
Paisler, C. S., brick, pipe, and cement,	6,415.72	
Penney, E. F.. dippers,	8.35	
Perkins & Chase, sand,	20.25	
Richards, George D., pails,	4.00	
Sawyer, S. P., pails, &c.,	12.26	
Sewer tax,	250.58	
Sherman, R. A. & Son, carpentry,	262.06	
Sisson, A. B., stone,	19.05	
Skiff, S. B., sharpening tools,	23.76	
So. Mass. Telephone Co., messages,	1.75	
Staples Bros., grates,	29.34	
Street Department, stock, labor, &c.,	4,293.44	
Sullings, Kingman & Co., tools,	162.07	
Sullivan, J. B., stone,	231.00	
Sylvia, A. A., sharpening tools,	26.73	
Taber, E. S., blocks,	5.75	
Taylor, Dr. W. H., medical attendance,	74.00	
Tillinghast, W. A., lumber,	19.38	
Tug W. O. Brown, breaking ice,	54.00	
Washburn, W. H., lumber,	1.97	
White, Phineas, pump repairs,	191.10	
Wood, Brightman & Co., grate,	.15	$22,775.66
To transfer to Incidentals,		1,881.61
		$24,657.27

CR.

By appropriation,	$1,000.00	
Special appropriations,	18,400.00	
Cash receipts, as per Treasurer's report,	5,257.27	$24,657.27

SEWERS — ALLEN STREET, No. 2.

Dr.

General Sewer Account, powder, &c.,	$8.10

Cr.

By special appropriation,	$8.10

SEWERS — ATLANTIC STREET.

Dr.

Pay-rolls, labor,	$282.93	
Drake, A. B., surveying,	18.00	
General Sewer Acount, pipe,	148.85	
Hathaway, A. E., sharpening tools,	31.35	
Jenney, P. P. & Son, pick handles,	6.25	
Paisler, C. S., brick and cement,	15.70	
Street Department, stock, teaming, &c.,	9.80	
Sylvia, A. A., sharpening tools,	5.78	$518.66

Cr.

By special appropriation,	$400.00	
" "	118.66	$518.66

SEWERS — AUSTIN STREET, No. 3.

Dr.

General Sewer Account, pipe,	$206.55

Cr.

By special appropriation,	$206.55

SEWERS — CHESTNUT STREET.

Dr.

Duddy, James, carting,	$.50	
General Sewer Account, pipe, cement, &c.,	60.65	$61.15

Cr.

By special appropriation,	$61.15

SEWERS — COLLINS STREET.

Dr.

Pay-roll, labor,	$103.50	
General Sewer Account, pipe,	88.40	
Hathaway, A. E., sharpening tools,	12.50	
Street Department, stock, labor, and teaming,	2.55	$206.95
To transfer to Incidentals,		43.05
		$250.00

Cr.

By special appropriation,	$250.00

SEWERS — COURT STREET, No. 2.

Dr.

Pay-rolls, labor,	$591.95	
Drake, A. B., surveying,	13.20	
General Sewer Account, pipe,	191.90	
Hathaway, A. E., sharpening tools,	29.43	
Jenney, P. P. & Son, pick handles,	4.20	
Paisler, C. S., brick and cement,	24.75	
Street Department, stock, teaming, &c.,	151.50	$1,006.93

Cr.

By special appropriations,	$906.93	
Cash receipts, as per Treasurer's report,	100.00	$1,006.93

SEWERS — ELM STREET, No. 2.

Dr.

Pay-roll, labor,	$144.77	
Drake, A. B., surveying,	10.20	
General Sewer Account, pipe,	77.35	
Hathaway, A. E., sharpening tools,	15.00	
Paisler, C. S., cement,	1.50	$248.82

Cr.

By special appropriation,	$222.12	
Transfer from Unappropriated Funds,	26.70	$248.82

SEWERS — GRIFFIN STREET.

Dr.

Pay-rolls, labor,	$532.12	
Drake, A. B., surveying,	53.70	
General Sewer Account, pipe, &c.,	171.57	
Gray, C. A., dynamite, &c.,	23.60	
Hathaway, A. E., sharpening tools,	124.99	
Hickory and Ward streets sewer, brick,	8.40	
Paisler, C. S., brick and cement,	22.03	
Street Department, stock, teaming, &c.,	11.60	$939.01

Cr.

By special appropriations,	$822.88	
Sale of brick,	8.40	
Transfer from Unappropriated Funds,	107.73	$939.01

SEWERS — HICKORY AND WARD STREETS.

Dr.

Pay-rolls, labor,	$1,961.70	
Borden, C. M., wood,	1.50	
Corson, T. S., coal,	7.00	
Drake, A. B., surveying,	52.50	
Eggers, Selmar, powder and fuse,	47.70	
General Sewer Account, pipe,	543.90	
Gray, C. A., dynamite,	23.87	
Griffin street sewer, brick,	8.40	
Hathaway, A. E., sharpening tools,	237.83	
Hayes, N. P., lead,	.18	
Jenney, P. P. & Son, tools,	8.40	
Paisler, C. S., brick, cement, &c.,	55.05	
Pothier, Dr. J. C., medical attendance,	3.00	
Potter, E. L., pails,	1.08	
Street Department, labor, stock, &c.,	54.43	
Sylvia, A. A., sharpening tools,	84.22	
Tillinghast, W. A., lumber,	.81	
Washburn, W. H., lumber,	6.68	$3,098.25

Cr.

By special appropriation,	$1,800.00	
" "	477.79	
" "	683.46	
Sale of brick,	8.40	$2,969.65
Transfer from Unappropriated Funds,		128.60
		$3,098.25

SEWERS — HALL STREET.

Dr.

Pay-roll, labor,	$120.91	
Drake, A. B., surveying,	17.70	
General Sewer Account, pipe,	84.50	
Hathaway, A. E., sharpening tools,	6.37	$229.48

Cr.

By special appropriation,	$205.41	
Transfer from Unappropriated Funds,	24.07	$229.48

SEWERS — LOCUST STREET, No. 2.

Dr.

Pay-rolls, labor,	$566.89	
Drake, A. B., surveying,	25.60	
General Sewer Account, pipe,	355.00	
Hathaway, A. E., sharpening tools,	85.90	
Paisler, C. S., brick, cement, &c.,	50.52	
Street Department, stock, teaming, &c.,	30.33	$1,114.24

Cr.

By special appropriation,	$700.00	
" "	33.64	
" "	25.60	
" "	355.00	$1,114.24

SEWERS — MT. PLEASANT STREET.

Dr.

Pay-rolls, labor,	$331.34	
Drake, A. B., surveying,	31.20	
General Sewers, pipe, &c.,	156.25	
Hathaway, A. E., sharpening tools,	49.44	
Paisler, C. S., brick, cement, and sand,	22.05	
Street Department, teaming,	6.63	$596.91
To transfer,		159.79
		$756.70

Cr.

By special appropriations,	$550.71	
Cash receipts, as per Treasurer's report,	205.99	$756.70

SEWERS — OAK AND GRAPE STREETS.

Dr.

Eggers, Selmar, powder and fuse,	$10.00	
Penney, E. F., plumbing,	8.75	
Sherman, W. D., sharpening tools,	19.82	
Tillinghast, W. A., lumber,	.36	$38.93

Cr.

By special appropriation,	$38.93

SEWERS — ORCHARD STREET.

Dr.

Pay-rolls, labor,	$3,332.01	
Anthony, E. & Sons, advertising,	1.07	
Borden, C. M.,	8.85	
Drake, A. B., surveying,	47.60	
Duff, David & Son,	984.25	
Eggers, Selmar, powder and fuse,	3.00	
Fire Department, pumping,	30.15	
Hathaway, A. E., sharpening tools,	24.87	
Hayes, N. P., hardware,	10.48	
Jenney, P. P. & Son, labor, &c.,	7.07	
McCullough, John, canvas,	5.00	
Old Colony R. R. Co., freight,	57.00	
Paisler, C. S., brick, pipe, and cement,	2,044.53	
Sisson, A. B.,	72.45	
Street Department, stock and teaming,	277.75	
Sullings, Kingman & Co., tools,	3.65	
Sweeney, Daniel, sand,	228.98	
Sylvia, A. A., sharpening tools,	2.52	
Washburn, W. H., lumber,	7.85	$7,149.08

Cr.

By special appropriation,	$1,600.00	
" "	1,200.00	
" "	2,800.00	
Transfer from Unappropriated Funds,	1,549.08	$7,149.08

EXTENSION OF PEARL AND WILLIS STREETS SEWER.

Dr.

Pay-rolls, labor,	$3,095.80	
Corson, T. S., coal,	4.42	
Dammon, Samuel, use of stages,	2.00	
Davis, C. E., use of steam scow,	290.00	
Drake, A. B., surveying,	349.20	
Footman, J. W., sharpening tools,	1.50	
Greene & Wood, lumber,	29.13	
Hamer & Borden, driving piles,	206.95	
Hamlin, J. B., piles,	591.00	
Hathaway, A. E., iron bolts,	251.40	
Hayes, N. P., tools, &c.,	32.25	
Jenney, P. P. & Son, repairing tools,	14.45	
Lowe, S. C., tools,	13.65	
Lowe & Pearsons, tools,	1.20	
N. B. Water Works, pipe,	141.67	
Pierce & Sowle, tools,	8.70	
Skiff, S. B., repairing tools,	4.50	
Street Department, stock, teaming, &c.,	75.60	
Tillinghast, W. A., timber,	578.21	
Warren Foundry & Machine Co., pipe,	6,433.61	$12,125.24
To transfer to Incidentals,		759.95
		$12,885.19

Cr.

By special appropriation,	$385.19	
" "	10,000.00	
" "	2,500.00	$12,885.19

SEWERS—RICHMOND STREET.

Dr.

Pay-roll, labor,	$263.40	
Drake, A. B., surveying,	23.20	
General Sewer Account, pipe,	149.60	
Hathaway, A. E., sharpening tools,	52.01	
Paisler, C. S., pipe and cement,	9.35	
Street Department, stock, teaming, &c.,	12.25	$509.81

Cr.

By special appropriation,	$340.00	
" "	137.26	
Transfer from Unappropriated Funds,	32.55	$509.81

SEWERS—RIVET STREET.

Dr.

Pay-rolls, labor,	$582.63	
Drake, A. B., surveying,	41.50	
Duff, David & Son, teaming,	27.50	
General Sewer Account, pipe,	578.75	
Hathaway, A. E., sharpening tools,	59.48	
Jenney, P. P. & Son, pick handles,	4.05	
Paisler, C. S., cement and brick,	37.70	
Street Department, stock and teaming,	30.25	$1,361.86

Cr.

By special appropriation,	$800.00	
" "	561.86	$1,361.86

SEWERS — RIVET STREET, No. 2.

Dr.

Pay-rolls, labor,	$1,454.15	
Corson, T. S., carting pipe,	30.00	
Drake, A. B., surveying,	40.80	
Eggers, Selmar, powder, &c.,	16.00	
General Sewer Account, pipe,	656.20	
Hathaway, A. E., sharpening tools,	112.79	
King, W. F., sharpening tools,	62.24	
Paisler, C. S., cement,	9.00	
Street Department, stock, teaming, &c.,	45.60	
Sylvia, A. A., sharpening tools,	4.10	$2,430.88
To transfer to Incidentals,		119.12
		$2,550.00

Cr.

By special appropriation,	$1,500.00	
" "	1,050.00	$2,550.00

SEWERS — SOUTH SECOND STREET, NO. 2.

Dr.

Pay-rolls, labor,	$476.50	
Corson, T. S., teaming,	2.00	
Drake, A. B., surveying,	63.00	
General Sewer Account, pipe,	213.35	
Hathaway, A. E., sharpening tools,	27.82	
Street Department, stock, teaming, &c.,	13.45	
Sylvia, A. A., sharpening tools,	2.00	$798.12

Cr.

By special appropriation,	$500.00	
" "	6.32	
" "	78.45	
" "	213.35	$798.12

SEWERS — SHERMAN STREET.

Dr.

Pay-rolls, labor,	$1,381.34	
Drake, A. B., surveying,	53.50	
Eggers, Selmar, powder and fuse,	6.00	
General Sewer Account, pipe,	184.60	
Hathaway, A. E., sharpening tools,	33.94	
Jenkins, B. S., painting and glazing,	6.90	
Paisler, C. S., cement, &c.,	46.25	
Street Department, teaming and stock,	37.30	
Sylvia, Antonio A., sharpening tools,	70.96	
Washburn, W. H., lumber,	3.28	$1,824.07

Cr.

By special appropriation,	$1,600.00	
" "	33.47	
" "	190.60	$1,824.07

SEWERS — SOUTH WATER STREET, No. 2.

Dr.

Pay-roll, labor,	$82.88	
Hathaway, A. E., sharpening tools,	18.12	$101.00

Cr.

By transfer from Unappropriated Funds,	$101.00

SEWERS — UNION STREET, NO. 3.

Dr.

Pay-rolls, labor,	$659.03	
Drake, A. B., surveying,	19.00	
Gray, C. A., teaming,	6.00	
General Sewer Account, pipe,	412.50	
Hathaway, A. E., sharpening tools,	42.71	
Jenney, P. P. & Son, tools and repairing,	8.70	
Paisler, C. S., brick and cement,	27.35	
Street Department, stock, labor, &c.,	22.55	$1,197.84

Cr.

By special appropriation,	$700.00	
" "	10.24	
" "	75.10	
" "	412.50	$1,197.84

SEWERS — WARWICK STREET.

Dr.

General Sewer Account, pipe, &c.,	$67.25

Cr.

By special appropriation,	$67.25

SEWERS — WEST MAXFIELD STREET.

Dr.

Pay-rolls, labor,	$1,177.32	
Andress, Braddock, teaming,	.75	
Drake, A. B., surveying,	37.50	
General Sewer Account, pipe,	575.00	
Hathaway, A. E., sharpening tools,	54.75	
Hayes, N. P., hammer, nails, &c.,	1.98	
Higgins, E. O., repairing water pipe,	1.00	
Jenney, P. P. & Son, tools and labor,	1.20	
N. B. Water Works, brick,	15.00	
Paisler, C. S., cement and brick,	41.10	
Street Department, stock, teaming, &c.,	41.15	
Washburn, W. H., lumber,	2.93	$1,949.68

Cr.

By special appropriations,	$1,949.68

SEWERS — WELD STREET.

Dr.

General Sewer Account, pipe,	$195.00

Cr.

By special appropriation,	$195.00

PUBLIC SCHOOLS — INCIDENTALS.

Dr.

Salaries:		
Almy, Emma M., clerk,	$412.02	
Hatch, W. E., superintendent and secretary,	2,259.59	
Paine, N. L., truant officer,	399.88	
Thornton, Rebecca, clerk,	180.00	
Tompkins, I. B., truant officer,	207.72	$3,459.21
Pay-Rolls:		
Janitors, sweepers, &c.,		8,541.66
Fuel:		
Ashley, Mary P.,	$40.00	
Brayton & Harrison,	14.06	
Corson, T. S.,	3,948.85	
Crapo's Steam Mill,	3.00	
Hart & Akin,	3.80	
Holmes, A. W.,	17.00	
Notter, John,	5.34	
Phillips, Lawson,	154.26	
Spencer's Wood Yard,	1.80	4,188.11
Repairs of School Houses:		
Brightman, C. O.,	$1.35	
Gifford's Brass Foundry,	43.05	
Greene & Wood,	23.56	
Hammond, F. W.,	21.05	
Hart & Akin,	10.32	
Holmes, D. W.,	15.19	
Jenney & Buffington,	16.05	
Mahoney, T. E.,	23.10	
Mason & Tripp,	72.26	
Maxfield, William & Son,	19.12	
Morris, J. N.,	25.02	
Paisler, C. S.,	.40	
Pierce, A. B.,	48.60	
Russell, D. J.,	66.12	
Taber, R. A.,	27.32	
Taber & Pope,	32.40	
Wady, A. B.,	53.64	498.55
Amount carried forward,		$16,687.53

Amount brought forward,		$16,687.53
BOOKS AND STATIONERY:		
Ambrose, F. M.,	$17.05	
Appleton, D. & Co.,	35.00	
Barnes, A. S. & Co.,	106.68	
Clark & Maynard,	18.00	
Cyclostyle Co.,	24.86	
Dews, Edwin,	7.72	
Freeman, G. H.,	42.00	
Frost & Adams,	104.85	
Ginn & Co.,	76.05	
Harper & Bros.,	482.63	
Heath, D. C. & Co.,	608.00	
Hume, Harrison,	38.58	
Hutchinson, H. S. & Co.,	70.11	
Kane, D. J. & Bro.,	185.20	
Kenffel & Esser,	16.29	
Lawton, J. M., Jr.,	11.43	
Lee & Shepard,	2.10	
Perry, G. S.,	1.287.18	
Prang Educational Co.,	385.80	
Schoenof, Carl,	10.56	
Sherman, C. R. & Son,	31.06	
Thompson, Brown & Co.,	285.65	
Thorp & Adams Manufacturing Co.,	7.20	
Ware, William & Co.,	318.10	
Whiting, C. H.,	16.50	4,188.60
REPAIRS OF HEATING APPARATUS:		
Hatch, G. E.,	$236.98	
Hayden, W. G.,	.60	
N. B. Boiler & Machine Co.,	.88	
Penney, E. F.,	8.67	
Tripp, S. A.,	595.86	
Wood, Brightman & Co.,	16.82	859.81
SUPPLIES:		
Acushnet Coöperative Association, soap, &c.,	$2.70	
Acushnet Iron Co., castings,	19.55	
Allen, C. N., skates,	1.98	
Allen, C. R., oil, &c.,	1.85	
American Bank Note Co., diplomas,	37.50	
Bennett, Samuel, dusters, &c.,	5.13	
Amount carried forward,		$21,735.94

Amount brought forward,		$21,735.94
Bliss & Nye, brooms, mats, &c.,	$139.80	
Bonney, C. T., Jr., fish,	5.53	
Bourne, G. A. & Son, safe,	25.00	
Briggs & Lawrence, furniture,	53.30	
Brownell & Co., shellac.	16.50	
Central Union Association, sponge,	1.32	
Cobb, G. A., sundries,	15.29	
Cummings, C. S. & B., salt and sugar,	.46	
DeWolf & Vincent, hardware,	15.84	
Dodge, G. N., soap, &c.,	14.02	
Douglass, F. M., alcohol, &c.,	16.45	
Eimer & Amend, chemicals, &c.,	78.33	
Ellis, L. B., frames, &c.,	22.16	
Frost, George & Co., files,	4.00	
Hadley, F. R., acid, &c.,	3.44	
Hart & Akin, brushes, &c.,	9.58	
Haskell & Tripp, ribbon and cloth,	22.22	
Hathaway, Nathaniel, zinc,	1.08	
Hayden, W. G., dusters, &c.,	9.31	
Hayes, N. P., hardware,	9.90	
Hazzard, J. B., blackboards,	53.44	
Hines, H. S., soap, &c.,	5.93	
Holden Book Cover Co.,	247.68	
Jenkins, B. S., brushes,	1.60	
Lawton, C. H. & H. A., acid,	.35	
N. B. Copper Co., bolts,	1.38	
N. B. Machine Co., iron pins,	2.00	
N. E. Embroidery Co., silk,	1.20	
Nickerson, G. Y., blocks,	.75	
Paine, S. S. & Bro., disinfectant,	4.52	
Perry, G. S., blackboards,	14.40	
Peirce, William, flowers, &c.,	14.35	
Pierce & Sowle, steps, &c.,	4.38	
Phillips, H. T., bookcases.	60.00	
Purrington & Brown, brushes, &c.,	105.93	
Queen, J. W. & Co., discs,	.25	
Read, William & Sons, equipments,	1.35	
Richards, G. D., mats, &c.,	92.51	
Ritchie, E. S. & Sons, chemical ther., &c.,	5.37	
Russell, D. J., furniture,	120.48	
Searles, Mortimer, stamp,	.50	
Seckel, Thomas, seaweed,	1.50	
Amount carried forward,		$21,735.94

Amount brought forward,		$21,735.94
Sherman, C. R. & Son, sundries,	$112.33	
Slocum, F. R., furniture,	4.75	
Smith, Henry, sundries,	7.62	
Sullings, Kingman & Co., hardware,	34.52	
Sullivan, D. J., clocks,	26.50	
Taylor, H. J. & Son, mats, dusters, &c.,	104.44	
Taylor, W. T., brooms, &c.,	11.03	
Tripp, L. G., sundries,	7.84	
Washburn, W. H., blocks,	2.00	
Whitcomb, A. G., furniture,	305.53	
Whiting, E. B. & Co., cloth,	1.65	
Wing, C. F., carpet, &c.,	27.38	1,917.70
MISCELLANEOUS:		
Allen, Mrs. A. L., cleaning,	$10.00	
Allen's express,	1.35	
Almy, E. M., washing towels,	3.00	
Almy, G. L., labor,	10.20	
Almy, J. T., taking census,	75.00	
Almy & Hitch, labor, &c.,	45.04	
Anthony, E. & Sons, printing and advertising,	358.22	
Ashley, I. L., carriage hire,	3.00	
Bancroft, F. C., rent,	100.00	
Bancroft, J. V., sprinkl ng,	14.00	
Barbour, J. R., labor,	14.20	
Briggs & Lawrence, repairing furniture,	59.85	
Brown, W. S., labor,	19.00	
Brownell, H. M., hacking,	2.00	
Butts, C. H. W., cleaning vaults,	12.00	
Carson, C. J. R., labor, &c.,	119.67	
Cassidy, G. G., fumigating,	14.80	
Cobb, G. A., labor, &c.,	36.56	
Coe, I. H., taking census,	60.00	
Corish, John, labor,	1.65	
Deane, Thomas, paving,	10.00	
Driscol, Church & Hall, barrels,	1.50	
Duddy, James, carting,	1.00	
Edison Electric Ill. Co.,	522.39	
Edwards, C. D., labor,	3.25	
Eggers, S., repairing swords,	1.25	
Freetown, Town of, tuition,	25.00	
Gammons, E. H., cleaning vaults,	30.50	
Amount carried forward,		$23,653.64

Amount brought forward,		$23,653.64
Gammons, L. M., covering books,	$13.40	
Gardner, T. M., carting,	19.70	
Gray, C. A., freight and carting,	53.78	
Hatch, W. E., expenses,	35.55	
Hatch & Co's. Express,	36.18	
Hathaway, G. B., writing diplomas,	13.00	
Hines, H. S., washing towels,	3.14	
Hurll, C. W., repairing clocks,	17.50	
International Express Co.,	.40	
Jenney, P. P. & Son, repairing tools,	8.88	
Kelley, J. S. & Son, repairing clocks,	1.00	
Kelley, W. L., repairing clocks,	22.25	
Lewis, B. F., painting seats, &c.,	16.07	
Lumbert, John, labor,	12.00	
McFarlin, James, carting,	7.50	
Mercury Publishing Co., advertising, &c.,	39.34	
Merrick, E. J., covering books,	8.95	
Moulton, A. G., carting,	55.75	
N. B. Electric Light Co.,	3.00	
N. B. Gas Light Co.,	590.61	
N. E. Dispatch Co.,	3.35	
Old Colony R. R. Co., freight,	5.83	
Other, Samuel, labor,	2.00	
Paine, N. L., use of team,	16.75	
Peirce, E. M., carriage hire,	6.00	
Percy, Thomas, carting,	1.00	
Phillips, H. T., repairing furniture,	58.00	
Phillips, H. T., taking census,	62.50	
Pollock, F. O., labor,	4.80	
Pope, A. P., labor,	75.00	
Republican Club, heating apparatus,	300.00	
Russell, D. J., labor,	33.02	
Sherman, C. R. & Son, labor,	20.90	
Sherman, W. H., carriage hire,	53.25	
Smith, Henry, taking census,	62.50	
Snow & Gilbert, painting,	4.55	
So. Mass. Telephone Co.,	74.25	
Taber, R. A., labor,	3.25	
Taber, W. H., labor,	8.95	
Tompkins, S. M., cleaning,	5.95	
Tripp, H. R., carting,	.50	
Wady, A. B., painting,	50.00	
Amount carried forward,		$23,653.64

Amount brought forward,		$23,653.64
Washburn, F. A., postage, &c.,	$1.54	
Welling, Eli, whitewashing,	21.20	
West, H. N., issuing certificates,	30.00	
White, Phineas, repairing pump,	7.71	
Wilbor, A. G., repairing clocks,	2.00	
Wood, E. B. & Son, carriage hire,	2.00	
Wood, J. A., labor,	10.50	
Wright, William, labor,	7.50	3,447.23
		$27,100.87

Cr.

By appropriations, general,	$22,000.00	
Appropriations, special,	2,500.00	$24,500.00
Transfers from:		
Public Schools, Pay of Teachers,	2,207.98	
Public Schools, Repairs of Buildings,	91.35	
Poor Department,	298.24	2,597.57
By cash receipts, as per Treasurer's report,		3.30
		$27,100.87

PUBLIC SCHOOLS — PARKER STREET HEATING APPARATUS.

Dr.

N. B. Boiler & Machine Co.,	$2,000.00

Cr.

1888, Jan. 5. By balance,	$2,000.00

NEW BEDFORD WATER WORKS.

Dr.

To expenditures, as per drafts of the New Bedford Water Board,	$85,548.73	
1889, Jan. 7. To balance,	18,823.65	$104,372.38

Cr.

1888, Jan. 5. By balance,		$18,240.49
By appropriations, general,	$12,000.00	
Appropriations, special (afterward bonded),	20,000.00	32,000.00
Cash receipts, as per Treasurer's report,		54,131.89
		$104,372.38

Cr.

1889, Jan. 7. By balance,	$18,823.65

PUBLIC SCHOOLS — DOG FUND.

Dr.

Barbour, J. R., janitor superintendent's office,	$50.00	
Thompson, J. D., rent superintendent's office,	350.00	$400.00
1889, Jan. 7. To balance,		1,097.17
		$1,497.17

Cr.

1888, Jan. 5. By balance,	$509.48	
By cash receipts, as per Treasurer's report,	987.69	$1,497.17

Cr.

1889, Jan. 7. By balance,	$1,097.17

PUBLIC SCHOOLS — REPAIRS OF BUILDINGS.

Dr.

ACUSHNET:		
Russell, D. J., carpentry,		$1.50
ACUSHNET AVENUE:		
Hayden, W. G., plumbing,	$37.00	
Jenney & Buffington, masonry,	15.08	
Maxfield, William & Son, painting, &c.,	64.22	
N. B. Boiler & Machine Co., repairing heaters,	6.97	
Robinson, J. M., carpentry,	9.19	132.46
ARNOLD STREET:		
Snow & Gilbert, glazing,		1.45
CANNONVILLE:		
Bliss, G. H., carpentry,	$2.85	
Davis Bros., glazing,	.50	3.35
CEDAR STREET:		
Gifford, T. J. & Co., repairing heaters,	$10.37	
Hatch, G. E., repairing heaters,	8.80	
Lewis, B. F., painting, &c.,	6.23	
N. B. Boiler & Machine Co., labor,	.25	25.65
CEDAR GROVE STREET:		
Gifford, T. J. & Co., repairing heaters,	$23.25	
Haskins, H. K., carpentry,	1.50	
Haskins, O. & Sons, carpentry,	5.40	
Lloyd Bros., repairing roof,	15.00	
Sturtevant & Parker, painting, &c.,	208.35	
West, W. R., glazing,	9.77	
Wood, Brightman & Co., repairing heaters,	54.39	317.66
CLARK'S POINT:		
Bliss, G. H., carpentry,		1.85
DARTMOUTH STREET:		
Almy, G. L., carpentry,	$14.47	
Penney, E. F., plumbing,	2.15	16.62
Amount carried forward,		$500.54

Amount brought forward,		$500.54
FIFTH STREET:		
Bertram, John & Co., concreting,	$90.90	
Gifford's Brass Foundry, plumbing,	31.54	
Hart & Akin, painting, &c.,	32.99	
Mason & Tripp, masonry,	15.64	
Russell, D. J., carpentry,	62.69	
Washburn, W. H., lumber,	55.67	289.43
FOURTH STREET:		
Bosworth, Darius, carpentry,	$4.73	
Chace, Ezra B., carpentry,	290.51	
Gifford's Brass Foundry, plumbing,	18.13	
Jenney & Buffington, masonry,	22.56	
Snow & Gilbert, painting, &c.,	52.10	388.03
GROVE:		
Chace, Ezra B., carpentry,		194.01
HIGH:		
Hart & Akin, glazing,	$16.45	
Peirce, William, seed and labor,	13.52	
Perkins & Chase, concreting,	5.05	
Russell, D. J., carpentry,	183.71	
Tripp, S. A., repairing heaters,	63.47	
Wood, Brightman & Co., felting,	3.09	285.02
HIGH STREET:		
Kirby, W. A., one half fence,	$3.72	
Look, J. W., carpentry,	1.60	
Wheaton, Nathan, masonry,	48.99	54.31
KEMPTON STREET:		
Dammon, G. K., glazing,	$4.00	
Hatch, G. E., repairing heaters, &c.,	149.40	
Jenkins, B. S., glazing,	1.25	
Look, J. W., carpentry,	150.02	
Tillinghast, W. A., lumber,	102.27	
West, W. R., painting, &c.,	30.25	437.19
Amount carried forward,		$2,148.53

Amount brought forward,		$2,148.53
LINDEN STREET:		
Bliss, G. H., carpentry,	$8.65	
Briggs, G. E., carpentry,	5.76	
Caswell, W. H., glazing,	.99	
Perkins & Chase, concreting,	30.50	45.90
MAXFIELD STREET:		
Coggeshall, Maxfield & Co., plumbing,	$.50	
Gifford's Brass Foundry, plumbing,	1.40	
Gifford, T. J. & Co., repairing heater,	45.66	
Hatch, G. E., repairing heater,	14.48	
Lewis, B. F., glazing,	3.25	
Mason & Tripp, masonry,	91.75	
Phinney, Nathan, masonry,	9.55	
Skiff, S. B., repairing fence,	1.50	
Tripp, H. W., carpentry,	9.68	
Tripp, S. A., repairing heaters,	10.56	188.33
MERRIMAC STREET:		
Bliss, G. H., carpentry,	$17.99	
Caswell, W. H., glazing,	.67	
Mason & Tripp, masonry,	53.14	
Perkins & Chase, concreting,	3.85	
Tripp, S. A., labor,	17.85	93.50
MIDDLE STREET:		
Brightman, C. O., carpentry,	$150.81	
Greene & Wood, lumber,	158.61	
Hammond, F. W., carpentry,	34.85	
Hayden, W. G., plumbing, &c.,	25.90	
Holmes, D. W., masonry,	28.77	
Lewis, B. F., painting, &c.,	111.67	
Wood, Brightman & Co., altering radiator,	20.00	530.61
NORTH:		
Faunce, L. H., carpentry,	$65.16	
Morton, E. F., masonry,	7.35	72.51
Amount carried forward,		$3,079.38

Amount brought forward,		$3,079.38
PARKER STREET:		
Hillman, Jethro, carpentry,	$1.58	
Lewis, B. F., glazing, &c.,	17.28	
Mason & Tripp, masonry,	190.87	
N. B. Boiler & Machine Co., repairing heater,	270.05	
Sherman, J. L. & Co., lumber,	9.40	
Tripp, H. W., carpentry,	134.85	
White, Phineas, fitting pump,	1.00	
Wood, Brightman & Co., bracket,	.56	
Wright, William, carpentry,	7.80	633.39
PLAINVILLE:		
White, Phineas, pump,		11.00
ROCKDALE:		
Davis Bros., glazing,		.50
THOMPSON STREET:		
Jenney & Buffington, masonry,	$98.19	
Lewis, B. F., glazing, &c.,	7.13	
Lloyd Bros., repairing roof,	25.00	
N. B. Boiler and Machine Co., repairing heater,	98.45	
Penney, E. F., plumbing,	9.50	
Pierce & Sowle, hardware,	1.40	
Taber, R. A., masonry,	12.87	
Tripp, H. W., carpentry,	1.20	
Wood, Brightman & Co., gauge glass,	.35	254.09
WILLIAM STREET:		
Bliss, G. H., carpentry,	$38.01	
Caswell, W. H., painting,	115.22	
Taber & Pope, one half fence,	18.50	171.73
		$4,150.09
To transfer to Public Schools, Incidentals,	$91.35	
Transfer to Incidentals,	358.56	449.91
		$4,600.00

CR.

1888, Jan. 5. By balance,	$100.00	
By appropriations, general,	3,000.00	
Appropriation, special,	1,500.00	$4,600.00

TRUANT SCHOOL.

Dr.

Anthony, E. & Sons, newspaper,	$6.00	
Bliss & Nye, brushes, &c.,	4.33	
Briggs & Lawrence, repairing chair,	.50	
Chace, Nellie A., teacher,	506.25	
Corson, T. S., coal,	41.11	
Davis, G. D., services,	18.00	
Davis, J. & Co., shoes and repairing,	74.15	
Delano, Gustavus, labor,	2.98	
Eddy, G. M. & Co., dry goods,	.75	
Greenwood, Levi, services,	86.00	
Knowles & Co., dry goods,	4.54	
Paine, N. L., commitments,	10.50	
Poor Department, board of scholars, &c.,	1,482.51	
Tripp, S. A., pipe and labor,	14.18	
White, Phineas, pump and repairing,	15.42	
Wing, J. & W. R., clothing, &c.,	24.34	$2,291.56

Cr.

By appropriations,	$2,000.00	
Transfer from Unappropriated Funds,	291.56	$2,291.56

PUBLIC DEBT.

Dr.

To principal (bonds) paid,	$45,000.00	
Interest on Bonds,	64,705.00	
Interest on Trust Funds,	6,407.11	$116,112.11

Cr.

By appropriation,	$114,611.00	
Transfer from Unappropriated Funds,	1,501.11	$116,112.11

POOR DEPARTMENT.

Dr.

Officers' Salaries:

Bucklyn, Ella F., clerk,	$403.91	
Fessenden, C. B. H., secretary,	1,109.92	
Flanders, Rev. G. T., chaplain,	165.00	
Homer, George S.,	150.00	
Howland, J., Jr.,	150.00	
Kingman, Dr. J. H., physician,	1,620.00	
Macy, P. S., superintendent at almshouse,	850.00	
Wilcox, H. R., superintendent at wood yard,	137.20	$4,585.03

OUTSIDE RELIEF.

Groceries:

Acushnet Coöperative Association,	$200.50	
Allen & Coxen,	14.00	
Alley, A. G., Jr.,	278.00	
Almy, A. A.,	10.00	
Andre, Joseph,	2.00	
Barrows, Edward,	7.00	
Bates, J. W.,	100.00	
Bates, L. B.,	86.00	
Bliss, F. C.,	8.00	
Bliss, F. C. & Son,	84.00	
Boardman, Thomas,	26.00	
Bradford, W. L.,	24.50	
Braley, J. W.,	219.50	
Bromley, David,	58.00	
Brownell, C. H. & Sons,	200.00	
Buhr, Josephine,	82.00	
Burgess, Thomas,	81.00	
Canny Bros.,	17.00	
Carl, Anna,	8.00	
Case, Isaac R.,	8.00	
Central Union Association,	781.00	
Chappell, W. H.,	8.00	
Chase, Z. W.,	60.00	
Chausse & LaFrance,	236.00	
Childs, Charles,	8.00	
Amount carried forward,		$4,585.03

Amount brought forward,		$4,585.03
Clark, Robert,	$96.00	
Collins, Davis,	2.42	
Cooper, Wm.,	16.75	
Cornell, J. W.,	7.00	
Cummings, C. S. & B.,	192.50	
Darling Bros.,	23.00	
Davenport, Dudley,	279.50	
Davis, C. S.,	219.50	
Davis, James,	96.00	
Dugan, Mary,	316.50	
Dyer, John E.,	224.00	
Fernandez, Joseph,	2.00	
Folger, D. B.,	613.00	
Francis, A. J.,	49.50	
Francis, J. B.,	189.00	
Frasier, E. M.,	266.00	
Gatie, Henry,	207.00	
Gendron, Edward,	56.50	
Gray Bros.,	164.00	
Greene, N. Herbert,	4.50	
Gregory, Peter,	8.00	
Hammond, H. S.,	278.50	
Harrington, D. H.,	62.00	
Hindle, William,	83.50	
Holcomb, Henry,	65.00	
Holcomb, Monroe,	621.00	
Howland & Co.,	8.00	
Howland, C. H.,	160.00	
Hunter, George,	36.00	
Industrial Coöperative Association,	56.00	
Jenney Bros.,	22.00	
Koster, Jacob,	16.00	
Lapham & Slocum,	48.00	
Leavitt, Clark,	213.00	
Lowe, James & Co.,	126.00	
Lowe, John H.,	51.00	
Lowe, T. P. & Co.,	4.00	
Luther, H. R.,	177.00	
Macomber, George W.,	48.00	
Macomber, W. B.,	21.00	
Marston, E. W.,	1.50	
McCloskey, John,	131.50	
Amount carried forward,		$4,585.03

Amount brought forward,		$4,585.03
McCloskey & Riley,	$101.50	
Moncrieff, David,	69.00	
Monté, Edward,	4.00	
Morse, F. & Co.,	201.25	
Moulton, F. F.,	90.00	
Murphy & Sullivan,	27.00	
Murphy, Thomas,	25.00	
Nye, Alfred,	54.00	
Paige, J. H.,	16.00	
Patnaude, J. C.,	52.00	
Peirce, L. E.,	61.50	
Pelan, Thomas,	99.00	
Pementel, Frank,	10.00	
Perry, H. C.,	4.00	
Potter, E. L.,	14.00	
Potter, W. F. & Co.,	20.00	
Robbins, W. A.,	2.00	
Rock, James,	84.00	
Rogers, M. D.,	4.00	
Sisson, J. S.,	31.00	
Smith, J. C. & Son,	17.00	
Spooner, W. E.,	32.00	
Stanton, A. G.,	64.00	
Sullivan Bros.,	184.00	
Taber, O. R. & Son,	100.00	
Taylor, J. C.,	35.00	
Tuell, J. B. C.,	29.00	
Vignault & Desautels,	2.00	
Washburn, A. R.,	108.00	
Wilmot, Joseph,	18.00	
Wilson, W. T.,	48.50	
Wood, Elihu, Jr.,	60.00	9,534.92
Boots, Shoes, and Clothing:		
Brownell, G. K.,	$6.00	
Donaghy, Thomas,	1.25	
Faisneau, G. E.,	1.50	
Peirce, S. D. & Co.,	21.75	
Sanders & Barrows,	13.62	
Taber, Read & Gardner,	5.50	
Union Boot & Shoe Co.,	15.28	64.90
Amount carried forward,		$14,184.85

Amount brought forward,		$14,184.85
FUEL:		
Collins, Davis,	$48.70	
Corson, T. S.,	887.62	
Dammon, Samuel,	148.70	
Douglass, M. S.,	380.64	
Lawrence, J. A.,	67.50	
Russell, John A.,	113.15	
Street Department,	413.60	
Wilcox, H. R.,	55.00	
Wood, Brightman & Co.,	1.88	2,116.79
BURIALS:		
Jean, J. B.,	$158.00	
Murphy, T. J.,	214.00	
Tinkham, J.,	20.00	
Vaughan, W. C., Jr.,	149.00	
Williams, J. S.,	173.00	
Wilson, E. T.,	266.00	980.00
MISCELLANEOUS:		
Anthony, E. & Sons, advertising and printing,	$40.76	
Blake, J. E., medicines,	13.00	
Briggs & Lawrence, repairing chairs,	4.74	
Burbank, Mary P., expenses,	2.62	
Butman, John,	1.00	
Chase, A. A., expenses,	3.92	
City Treasurer, cash orders,	1,668.00	
Coffin, H. B., rent,	5.50	
Damon, Mrs. C. H., board,	72.00	
Douglass, F. M., medicines,	2.50	
Dugan, M.,	25.00	
Enos, Mary, board,	8.00	
Harris, E. T.,	132.00	
Hatch & Co., ticket,	5.00	
Hitch, E. E., passage money,	30.00	
Hutchinson, H. S. & Co., stationery,	1.40	
Jenifer, J. H., rent,	26.00	
Kelley, J. S. & Son, repairing clock,	1.50	
Lawton, C. H. & H. A., medicines,	2.60	
Lawton, J. M., Jr., stationery,	.75	
Macomber, H. A.,	12.00	
Amount carried forward,		$17,281.64

Amount brought forward,		$17,281.64
Manchester, A. P., painting,	$21.00	
Mercury Publishing Co.,	10.62	
N. B. Cordage Co.,	25.00	
N. B. Steam Carpet Beating Co.,	5.00	
Old Colony R. R. Co., passage,	118.47	
Pierce, E. T., agent, passage,	.75	
Piper, J. Arthur, cleaning,	5.00	
Sherman, C. R. & Son, stationery,	7.00	
Sherman, E. B., board,	1.00	
Sisson, O. A., rent,	24.00	
Snow, Loum & Son, passage,	173.00	
So. Mass. Telephone Co.,	54.00	
Tinkham, J. S., board,	7.00	
W. U. Telegraph Co., messages,	1.20	
Wood, E. B. & Son, carriage hire,	2.50	
Woodward, M., board,	5.75	2,519.58

PAID STATE AND HOSPITALS FOR BOARD OF PERSONS OUT OF THE CITY.

Carney Hospital,	$52.86	
Commonwealth of Massachusetts,	450.14	
Massachusetts School for the Feeble Minded,	134.64	
Taunton Lunatic Hospital,	6,870.53	
Westboro Insane Hospital,	187.10	
Worcester Insane Asylum,	496.25	
Worcester Lunatic Hospital,	289.35	8,480.87

PAID CITIES AND TOWNS FOR SUPPLIES AND BOARD OF PERSONS OUT OF THE CITY.

Barnstable,	$7.00	
Boston,	193.40	
Brockton,	20.00	
Chelsea,	25.90	
Dartmouth,	60.00	
Easton,	10.00	
Fairhaven,	315.84	
Fall River,	331.90	
Hanson,	9.98	
Ipswich,	60.00	
Lawrence,	2.65	
Amount carried forward,		$28,282.09

Amount brought forward,		$28,282.09
Lowell,	$55.95	
Lynn,	9.50	
Mattapoisett,	102.57	
Nantucket,	96.00	
Plymouth,	2.00	
Springfield,	120.05	
Taunton,	59.86	
Whitman,	11.50	
Worcester,	18.30	
Wrentham,	54.00	1,566.40

ALMSHOUSE.

CLOTHING, HATS, CAPS, ETC.:

Davis, J. & Co.,	$32.80	
Devoll, P. & Son,	8.05	
Doane & Sons,	46.75	
Donaghy, Thos.,	16.26	
Faisneau, George E.,	87.15	
Knowles, Joseph F.,	11.20	
Lucas, A. E.,	11.40	
Moore & Diman,	34.76	
Nichols & Damon,	8.95	
Sanders & Barrows,	19.24	
Soule, W. T.,	45.75	
Taber, Read & Gardner,	28.50	350.81

FURNISHINGS AND SUPPLIES:

Bennett, Samuel,	$1.00	
Blake, J. E.,	21.72	
Bliss & Nye,	14.23	
Borden, C. M.,	100.58	
Bowen, George S. & Co.,	7.25	
Briggs & Lawrence,	14.75	
Brownell & Co.,	7.25	
Clarke, M. F.,	9.60	
Corson, T. S.,	746.44	
Delano, George's Sons,	7.30	
DeWolf & Vincent,	13.38	
Douglass, F. M.,	20.25	
Eddy, George M. & Co.,	5.50	
Globe Gas Light Co.,	11.85	
Greene & Wood,	26.03	
Amount carried forward,		$30,199.30

Amount brought forward,		$30,199.30
Hadley, F. R.,	$24.90	
Hart & Akin,	8.74	
Hart, T. M.,	2.86	
Hayes, N. P.,	9.54	
Homer, George S.,	21.35	
Lawton, C. H. & H. A.,	36.79	
Lewis, Job,	3.00	
Maxfield & Peirce,	5.00	
Paine, S. S. & Bro.,	6.89	
Richards, George D.,	14.10	
Richmond, S. P. & Co.,	15.66	
Sullings, Kingman & Co.,	44.04	
Taylor, H. J. & Co.,	5.93	
Wilson, W. P.,	157.09	
Wing, C. F.,	30.98	
Wing, Samuel,	9.00	1,403.00
PROVISIONS AND GRAIN:		
Baylies, William,	$494.10	
Brownell, E. C.,	959.43	
Cummings, C. S. & B.,	320.21	
Davis & Hatch,	157.14	
Denison Bros.,	687.17	
Driscol, Church & Hall,	883.60	
Ellis, Charles E.,	19.54	
Gifford, Fred. S.,	120.05	
Greene, N. Herbert,	22.48	
Leonard, H. A.,	78.33	
Macomber Bros.,	575.14	
Mosher, F. P.,	8.50	
Potter, W. F. & Co.,	313.68	
Richmond, S. P.,	6.34	
Russell, S. H.,	56.72	
Sherman, I. C. & Son,	9.75	
Snell, D. A.,	2.71	4,714.89
MISCELLANEOUS:		
Almshouse help, labor, and nursing,	$2,920.07	
Anthony, E. & Sons,	10.50	
Ashley, H. T., exchange of cows,	13.00	
Brightman, A., dressing pigs,	14.25	
Brightman, Gardner, threshing,	12.95	
Brownell, Ashley & Co., repairing wagons,	140.65	
Brownell, H. M., hitching,	30.00	
Amount carried forward,		$36,317.19

Amount brought forward,		$36,317.19
Cronin, Wm., repairing harness,	$17.43	
Cushing, C. F., repairing harness,	29.22	
Delano, Gustavus, labor,	84.60	
DeWolf & Vincent, hardware,	8.10	
Dews, Edwin, stationery,	4.50	
Fire Department, dressing,	243.97	
Forbes, J. R. & Co., repairing wagons,	22.13	
Handy, Jonathan, bolts,	2.21	
Hart & Akin, painting,	2.94	
Hayes, N. P., hardware,	12.38	
Jenney, P. P. & Son, labor,	8.78	
Kelley, W. L., repairing clocks,	4.75	
Lowe, James, labor,	10.00	
Macy, Frederick, dressing,	15.27	
McCullough, John, canvas,	20.96	
Mercury Publishing Co.,	6.00	
Morandi, Francis & Co., steamer,	37.50	
N. B. Boiler & Machine Co., repairs,	218.57	
Paine, S. S. & Bro., lime,	4.25	
Salisbury, Levi, use of oxen,	20.00	
Sherman, C. R. & Son, stationery,	5.80	
Sherman, W. D., labor,	3.51	
So. Mass. Telephone Co.,	43.25	
Street Department, dressing,	154.08	
Swan, W. D., repairing blocks,	1.30	
Tripp, S. A., repairing tinware,	42.29	
White, Phineas, repairing pumps,	51.52	
Wood, Brightman & Co., plumbing,	9.63	4,226.36
		$40,543.55
To transfer to:		
Fire Department,	$38.42	
Free Public Library,	451.88	
Harrington School — House and Lot,	1,225.77	
N. B. & Fairhaven Bridge,	72.91	
Public Schools, Incidentals,	298.24	2,087.22
		$42,630.77

CR.

By appropriation,	$33,000.00	
Cash receipts, as per Treasurer's report,	9,630.77	$42,630.77

REPAIRS OF CITY PROPERTY.

Dr.

ALMSHOUSE:

Barrows & Lawton, painting,	$187.11	
Coggeshall, Maxfield & Co., plumbing,	5.60	
Greene & Wood, lumber,	1.79	
McGurk, Bernard, masonry,	185.00	
Nelson, George, masonry,	32.02	
Perkins & Chase, concreting,	468.82	
Sherman, J. L. & Co., lumber, &c.,	34.80	
Snow & Gilbert, painting,	167.00	$1,082.14

CITY HALL BUILDING:

Bliss & Nye, brush,	$1.50	
Briggs & Lawrence, furniture and repairing,	100.70	
Caswell, W. H., painting,	24.01	
Coggeshall, Maxfield & Co., plumbing,	.60	
Edison Electric Illuminating Co.,	192.52	
Gifford's Brass Foundry, plumbing,	1.73	
Hatch, G. E., stoves and repairing,	52.00	
Hayden, W. G., care of stoves,	10.95	
Hillman, Jethro, carpentry,	.50	
Lowe, S. C., care of stoves,	7.00	
Lowe & Pearsons, care of stoves,	38.80	
Richards, G. D., dusters, &c.,	3.45	
Smith, A. P., safe,	100.00	
Sullings, Kingman & Co., hardware,	.35	
Taber & Pope, carpentry,	22.43	
Taylor, H. J. & Son, dusters, &c.,	12.20	
Taylor, W. T., brushes, &c.,	7.50	
Wady, A. B., glazing,	6.75	
Washburn, W. H., lumber, &c.,	19.95	
Wood, Brightman & Co., plumbing,	6.61	609.55

CITY HALL SQUARE:

Babbitt, Wood & Co., ironwork,	$16.13	
Central Union Association, grass seed,	5.23	
Hayes, N. P., hardware,	3.76	
Jenney, P. P. & Son, stock and labor,	35.07	
Luce, F. C., ironwork,	3.66	
Amount carried forward,		$1,691.69

Amount brought forward,		$1,691.69
Maxfield, Russell, superintendent,	$390.00	
Perkins & Chase, concreting,	70.50	
Sullings, Kingman & Co., hardware,	7.20	531.55
CITY STABLES:		
Beetle, R., flagstaff,	$13.98	
Bowker & Tripp, ironwork,	10.05	
Briggs & Lawrence, furniture,	31.00	
Brownell & Murkland, extra work,	168.21	
Caswell, W. H., painting,	1.53	
Coggeshall, Maxfield & Co., plumbing, &c.,	105.95	
Haskins, O. & Sons, carpentry,	8.35	
Hatch, G. E., galvanized ironwork,	16.80	
Hatch, W. W., labor,	8.00	
Kirby, W. A., carpentry,	110.18	
Paisler, C. S., pipe, &c.,	23.50	
Street Department, filling in lot, labor, &c.,	3,062.75	
Tripp, S. A., galvanized ironwork, &c.,	134.15	
Wing, C. F., linoleum, &c.,	26.55	3,721.00
COMMON:		
Baylies, William, grass seed,	$6.25	
Coggeshall, C. W., paid for labor,	3.75	
Coggeshall, Maxfield & Co., labor,	.50	
Cragen, C. H., halyards and labor,	10.88	
Gray, C. A., mowing,	16.00	
Haskins, O. & Sons, carpentry,	11.07	
Jenney, P. P. & Son, stock and labor,	38.23	
Lewis, B. F., painting,	49.32	
Luce, F. C., ironwork,	6.85	
Maxfield, William & Son, painting,	25.92	
Sullings, Kingman & Co., hardware,	3.96	
Taber, C. C., superintendent,	549.00	
Taber, J. T., labor,	43.40	
Tillinghast, W. A., lumber,	49.90	
Tripp, H. R., carting,	1.00	
Washburn, W. H., lumber, &c.,	7.80	823.83
ILLUMINATED CLOCK:		
Brightman, C. O., carpentry,	$4.30	
Calnen, Timothy, masonry,	162.00	
Chase, J. F., carting,	1.45	
Amount carried forward,		$6,768.07

Amount brought forward,		$6,768.07
E. Howard Watch & Clock Co., dials, &c.,	$387.65	
Haskins, O. & Sons, carpentry,	7.08	
Jenney, P. P. & Son, stock and labor,	120.94	
McCullough, John, canvas,	10.10	
Mowrey, G. E., labor,	10.00	
North Congregational Church, labor,	7.50	
Old Colony R. R. & Co., freight,	2.32	
Wood, Brightman & Co., pipe and labor,	2.05	715.39
LIBRARY BUILDING:		
Almy & Hitch, awning, &c.,	$10.75	
Barrows & Lawton, painting,	75.73	
Bliss & Nye, mats, &c.,	9.75	
Borden, C. F., door and railings,	78.00	
Briggs, G. E., carpentry,	7.03	
Briggs & Lawrence, repairing furniture,	18.20	
Brownell & Murkland, masonry,	83.25	
Coggeshall, Maxfield & Co., plumbing,	9.65	
Cranston, O. W., fitting shades,	2.00	
Edison Electric Illuminating Co.,	127.51	
Gifford, T. J. & Co., plumbing, &c.,	8.01	
Gifford's Brass Foundry, plumbing,	10.05	
Greene & Wood, lumber,	2.76	
Hammond, E. B., services,	5.00	
Hart & Akin, painting, &c.,	16.75	
Haskins, O. & Sons, carpentry,	86.90	
Hayes, N. P., hardware,	3.85	
Hillman, Jethro, carpentry,	109.34	
Holmes, D. W., masonry,	.75	
Jenkins, B. S., painting, &c.,	88.37	
Jenney, P. P. & Son, stock and labor,	17.13	
Jenney & Buffington, masonry,	26.91	
Kelley, W. L., clock,	15.00	
Kern & Wright, painting,	62.43	
Kilcoin, Luke, masonry,	136.75	
Lowe, James, labor on lawn,	15.25	
Morris, E. C. & Co., safe,	356.94	
N. B. Boiler & Machine Co.,	71.74	
Old Colony R. R. Co., freight,	43.06	
Paisler, C. S., tiles and cement,	111.22	
Richards, G. D., brushes, &c.,	5.00	
Amount carried forward,		$7,483.46

Amount brought forward,		$7,483.46
Sawin, A. K. P., moving safes,	$77.00	
Sherman, C. R. & Son, fitting lock,	.60	
Skiff, S. B., ironwork,	4.26	
Slocum, F. R., furniture,	27.95	
Snow & Gilbert, painting,	102.15	
Soule, T. H., awning, &c.,	9.25	
Sullings, Kingman & Co., hardware,	.25	
Sullivan, D. J., clock,	7.00	
Taber, R. A., masonry,	13.42	
Taber & Pope, carpentry,	83.27	
Taylor, H. J. & Son, dusters, mats, &c.,	32.82	
Tillinghast, W. A., lumber,	.88	
Tripp, H. W., carpentry,	77.14	
Tripp, S. A., repairing roof, &c.,	21.64	
Wady, A. B., painting,	2.05	
Washburn, W. H., lumber, &c.,	19.96	
Wing, C. F., carpets, &c.,	170.46	
Wood, Brightman & Co., plumbing,	3.06	2,269.14
POLICE STATIONS:		
Bowman, Asa, carpentry,	$8.25	
Case, A. H., masonry,	36.84	
Coggeshall, C. W., paid for labor,	2.00	
Geils, Gerett, furniture,	10.00	
Gifford, O. E., painting,	18.21	
Gifford, T. J. & Co., plumbing,	95.31	
Greene & Wood, lumber,	12.09	
Haskins, O. & Sons, carpentry,	31.63	
Hayes, N. P., hardware,	2.40	
Hillman, Jethro, carpentry,	8.10	
Jenney & Buffington, masonry,	6.72	
Kirby, W. A., carpentry,	40.23	
Nelson, George, masonry,	103.57	
Paisler, C. S., brick and cement,	82.54	
Sherman, J. H., tinwork,	18.75	
Skiff, S. B., ironwork,	69.08	
Snow & Gilbert, glazing,	.60	
Taber & Pope, carpentry,	46.37	
Tillinghast, W. A., lumber,	13.02	605.71
Amount carried forward,		$10,358.31

Amount brought forward,		$10,358.31
THOMPSON STREET SCHOOL HOUSE — BANK WALL, &C.:		
Bertram, John & Co., concreting,	$81.50	
Corson, T. S., wall and fence,	1,075.00	
Drake, A. B., surveying,	2.20	
Hammond, E. B., plan,	3.00	1,161.70
WARD ROOMS:		
Brightman, C. O., carpentry,	$33.17	
Hatch, G. E., care of stoves,	5.48	
Lawson, Robert, labor,	2.00	
Taylor, H. J. & Son, curtains,	7.60	
Wood, Brightman & Co., plumbing, &c.,	100.55	148.80
MISCELLANEOUS:		
Anthony, E. & Sons, advertising,	$22.50	
Bradley, W. E., carriage hire,	6.50	
Caswell, A. R., carriage hire,	2.50	
Coggeshall, Maxfield & Co., plumbing, wood yard,	1.45	
Gifford's Brass Foundry, plumbing, wood yard,	6.85	
Lawson, Robert, labor, pound,	1.00	
Mercury Publishing Co., advertising,	17.81	
Nelson, George, masonry, powder house,	5.88	
Sullings, Kingman & Co., hardware, wood yard,	.80	
Swan, W. D. & Son, repairing pumps,	11.40	
Taber & Pope, carpentry, wood yard,	7.89	
Wood, E. B. & Son, carriage hire,	1.75	86.33
		$11,755.14

CR.

By appropriations, general,	$5,000.00	
Appropriations, special,	3,455.00	
Transfer from Unappropriated Funds,	3,300.14	$11,755.14

UNAPPROPRIATED FUNDS.

Dr.

To transfers to:		
Appropriations, Special, 1888,	$16,533.88	
Appropriations, Special, 1887,	4,298.12	
Cemeteries,	979.88	
Fire Department,	2,430.33	
Incidentals,	23,558.81	
Lighting the Streets,	721.86	
Police Department,	1,264.33	
Public Debt,	1,501.11	
Repairs of City Property,	3,300.14	
Sewers, Elm Street, No. 2,	26.70	
Sewers, Griffin Street,	107.73	
Sewers, Hall Street,	24.07	
Sewers, Hickory and Ward Streets,	128.60	
Sewers, Orchard Street,	1,549.08	
Sewers, Richmond Street,	32.55	
Sewers, South Water Street,	101.00	
Truant School,	291.56	$56,849.75

Cr.

By cash receipts, as per Treasurer's report,	$56,849.75

DISCOUNT FOR PROMPT PAYMENT OF TAXES.

Dr.

To transfer to Appropriations, General, 1888,	$10,000.00

Cr.

By appropriation,	$10,000.00

TRUST FUNDS.

Cr.

By Sylvia Ann Howland Free Public Library Fund:		
One half of the bequest of Sylvia Ann Howland for the support of Liberal Education and Free Public Library,		$50,000.00
By Sylvia Ann Howland Educational Fund:		
One half of the bequest of Sylvia Ann Howland for the support of Liberal Education and the Free Public Library,		50,000.00
By George Howland, Jr., Fund:		
Donation to Free Public Library,		1,600.00
By Charles W. Morgan Fund:		
Bequest to Free Public Library,		1,000.00
By Oliver Crocker Fund:		
Bequest to Free Public Library,		1,000.00
By James B. Congdon Fund:		
Donation to Free Public Library,		500.00
By Jonathan Bourne Prize Fund:		
Donation to School Committee,		1,000.00
By George O. Crocker Fund:		
Bequest to Free Public Library,		10,000.00
		$115,100.00
By Cemetery Fund Deposited in the Treasury by:		
Allen, Charles F.,	$25.00	
Backman, George W.,	50.00	
Barker, John P.,	50.00	
Bierstadt, Edward,	100.00	
Blackmer, William, Estate of,	50.00	
Blakely, Richard,	100.00	
Blossom, E. R.,	15.00	
Booth, C. F.,	75.00	
Bourne, Jonathan,	100.00	
Brownell, Frederick A.,	50.00	
Amount carried forward,		$115,100.00

Amount brought forward,		$115,100.00
Buchanan, Thomas,	$100.00	
Clark, B.,	60.00	
Clark, Joseph,	100.00	
Colesworthy, Emeline,	15.00	
Congdon, S. and E.,	100.00	
Cook, Julia A.,	30.00	
Cornell, William, Jr.,	25.00	
Crapo, Sarah A., "Rural,"	50.00	
Crapo, Sarah A., "Oak Grove,"	50.00	
Cross, Sylvia G.,	150.00	
Davis, Aaron,	25.00	
Davis, Nicholas,	50.00	
Devoll, Joseph,	50.00	
DeWolf, William H.,	75.00	
Dexter, C. E.,	100.00	
Drew, Francis,	50.00	
Durfee, Thomas,	50.00	
Dyer, Asa,	50.00	
Eaton, Jacob,	50.00	
Ferguson, Jireh L.,	50.00	
Gardner, Edmund,	100.00	
Gellett, Harriet A.,	100.00	
Gibbs, Robert,	80.00	
Greene, L. P.,	100.00	
Greene, David R.,	100.00	
Harris, William, Trustee of will of,	100.00	
Hart, Amelia,	75.00	
Hill, Phebe,	50.00	
Hitch, Charles, Estate of,	200.00	
Howe, Moses G.,	125.00	
Howland, Hester A.,	100.00	
Howland, Jonathan,	150.00	
Howland, Jonathan,	40.00	
Ingalls, Seth H. and William,	100.00	
Jenney, Caleb T.,	100.00	
Jenney, Leonard,	100.00	
Johnson, E. R., Estate of,	300.00	
Kelley, Ezra,	100.00	
Knights, William,	100.00	
Knowles, John P.,	100.00	
Kollock, Lemuel,	100.00	
Macomber, Henry B.,	50.00	
Maxim, William,	50.00	
Amount carried forward,		$115,100.00

Amount brought forward,		$115,100.00
Menage, Henry G.,	$50.00	
McKenzie, Alexander,	60.00	
Moore, Ann M.,	25.00	
Murdock, Ann E.,	44.93	
Nelson, Mary A.,	150.00	
Oliver, H. G.,	75.00	
Owen, Elizabeth,	75.00	
Peirce, Bradford S.,	100.00	
Peirce, David R.,	50.00	
Peirce, Lloyd N.,	100.00	
Records, Ellery,	50.00	
Richmond, Joshua,	100.00	
Robeson, Emily P.,	100.00	
Rose, Mary A..	50.00	
Russell, Wing,	50.00	
Sherman, Lucy T.,	100.00	
Sherman, Wing, Estate of,	100.00	
Simmons, Sarah E.,	50.00	
Smith, Shubael,	50.00	
Snell, Thomas,	100.00	
Spencer, C. L.,	100.00	
Spooner, Paul, for,	100.00	
Staples, Calvin,	100.00	
Star in the East Lodge and Adoniram Royal Arch Chapter, F. & A. M.,	50.00	
Stetson, Nathaniel,	50.00	
Stranberg, Caroline,	50.00	
Swain, Oliver,	50.00	
Sweet, Betsey B.,	25.00	
Swift, Jireh and wife,	50.00	
Taber, Henry,	100.00	
Taber, Lucy B.,	100.00	
Taylor, Mary B.,	25.00	
Thomas, Henry F., Estate of,	150.00	
Tobey, Franklin,	70.00	
Tompkins, Eliza,	50.00	
Ward, S. J.,	100.00	
West, B. H.,	50.00	
Wilbur, Mary A.,	50.00	
Wilson, George,	100.00	
Wood, Borden,	50.00	
Wordell, Brayton B.,	50.00	7,214.93
		$122,314.93

BONDS OF THE CITY OF NEW BEDFORD.

TITLES, RATES, AMOUNTS DUE ANNUALLY, AND TOTALS.

	Sewer Bonds, 4s.	Old Bonds, 5s.	Water Bonds, 6s.	Water Bonds, 7s.	Bridge, etc., 6s.	City Impvt. Bonds, 6s.	Totals.
1889,	$10,000		$20,000	$10,000	$5,000		$45,000
1890,	10,000		20,000	10,000	5,000		45,000
1891,	10,000		20,000	10,000		$10,000 R.	50,000
1892,	"		20,000	10,000		10,000 C.	40,000
1893,		Water 4s.	20,000		City Imp.	5,000 R. 8,000 C.	33,000
1894,		$100,000	20,000		3½s.	10,000 C.	130,000
1895,			20,000		80,000	10,000 C.	110,000
1896,			20,000	City Impt.	25,000	10,000 C.	55,000
1897,			20,000	4s.	35,000	10,000 R.	65,000
1898,			20,000	15,000		10,000 C.	45,000
1899,		Water 5s.	20,000	Water 7s.		10,000 C.	30,000
1900,		20,000		10,000		10,000 R.	40,000
1901,		20,000		10,000		10,000 R.	40,000
1902,		20,000		10,000		10,000 R.	40,000
1903,		20,000		10,000		5,000 C. 5,000 R.	40,000
1904,		20,000		10,000		10,000 R.	40,000
1905,		Sewer 3½s.	20,000	10,000		10,000 R.	40,000
1906,		60,000	20,000	10,000		10,000 R.	100,000
1907,		15,000	20,000	10,000		10,000 R.	55,000
1908,	35,000		20,000	10,000		10,000 R.	75,000
1909,			20,000	10,000		5,000 C. 5,000 R.	40,000
1910,		Water 4s.				30,000 C.	30,000
1918,		20,000					20,000
		Total,					$1,208,000

Amount of Water Bonds, 7s,		$140,000	
" 5s,		100,000	
" 6s,		320,000	
" 4s,		120,000	
Bridge, etc., 6s,		10,000	
Sewer Bonds, 4s,		65,000	
Sewer Bonds, 3½s,		75,000	
City Improvement Bonds, 6s,		223,000	
" " 3½s,		140,000	
" " 4s,		15,000	$1,208,000

INTEREST AS PAYABLE YEARLY.

			Totals.
1889.	On $140,000 Water Bonds, at 7 per cent.,	$9,800	
	100,000 " " 5 "	5,000	
	320,000 " " 6 "	19,200	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	10,000 Bridge Bonds at 6 per cent.,	600	
	65,000 Sewer Bonds, at 4 "	2,600	
	75,000 Sewer Bonds, at 3½ "	2,625	
	15,000 City Improvement Bonds, 4 per cent.,	600	$63,505
1890.	On $130,000 Water Bonds, at 7 per cent.,	$9,100	
	100,000 " " 5 "	5,000	
	300,000 " " 6 "	18,000	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	5,000 Bridge Bonds, at 6 per cent.,	300	
	55,000 Sewer Bonds, at 4 "	2,200	
	75,000 Sewer Bonds, at 3½ "	2,625	
	15,000 City Improvement Bonds, 4 per cent.,	600	$60,905
1891.	On $120,000 Water Bonds, at 7 per cent.,	$8,400	
	100,000 " " 5 "	5,000	
	280,000 " " 6 "	16,800	
	120,000 " " 4 "	4,800	
	223,000 City Improvement Bonds, at 6 per cent.,	13,380	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	45,000 Sewer Bonds, at 4 per cent.,	1,800	
	75,000 Sewer Bonds, at 3½ "	2,625	
	15,000 City Improvement Bonds, 4 per cent.,	600	$58,305
1892.	On $110,000 Water Bonds, at 7 per cent.,	$7,700	
	100,000 " " 5 "	5,000	
	260,000 " " 6 "	15,600	
	120,000 " " 4 "	4,800	
	213,000 City Improvement Bonds, at 6 per cent.,	12,780	
	140,000 City Improvement Bonds, at 3½ per cent.,	4,900	
	35,000 Sewer Bonds, at 4 per cent.,	1,400	
	75,000 Sewer Bonds, at 3½ "	2,625	
	15,000 City Improvement Bonds, 4 per cent.,	600	$55,405

THE FOLLOWING TABLE EXHIBITS THE TOTAL AMOUNT OF THE BONDED DEBT OF THE CITY; THE AMOUNT OF BONDS PAYABLE EACH YEAR; THE AMOUNT DUE EACH YEAR FOR INTEREST; AND THE AGGREGATE OF BOTH PRINCIPAL AND INTEREST TO BE PAID IN LIQUIDATION.

Years.	Bonds.	Interest.	Amount.
1889,	$45,000	$63,505	$108,505
1890,	45,000	60,905	105,905
1891,	50,000	58,305	108,305
1892,	40,000	55,405	95,405
1893,	33,000	51,905	84,905
1894,	130,000	50,925	180,925
1895,	110,000	45,125	155,125
1896,	55,000	40,525	95,525
1897,	65,000	37,850	102,850
1898,	45,000	34,525	79,525
1899,	30,000	32,425	62,425
1900,	40,000	30,625	70,625
1901,	40,000	28,325	68,325
1902,	40,000	26,025	66,025
1903,	40,000	23,725	63,725
1904,	40,000	21,425	61,425
1905,	40,000	19,125	59,125
1906,	100,000	16,625	116,625
1907,	55,000	12,025	67,025
1908,	75,000	8,300	83,300
1909,	40,000	5,100	45,100
1910,	30,000	2,600	32,600
1911,		800	800
1912,		800	800
1913,		800	800
1914,		800	800
1915,		800	800
1916,		800	800
1917,		800	800
1918,	20,000	400	20,400
	$1,208,000	$731,300	$1,939,300

BONDS PAYABLE IN 1889:		
Bridge, etc., Bonds,	$5,000	
Water Bonds, 7s,	10,000	
Water Bonds, 6s,	20,000	
Sewer Bonds, 4s,	10,000	$45,000
INTEREST PAYABLE IN 1889:		
On $680,000 Water Bonds,	$38,800	
223,000 City Improvement Bonds,	13,380	
140,000 City Improvement Bonds, 3½s,	4,900	
140,000 Sewer Bonds,	5,225	
10,000 Bridge, etc., Bonds,	600	
15,000 City Improvement Bonds, 4s,	600	63,505
Trust Funds ($105,100 at 6 per cent.),	$6,306	
($10,000 at 4 per cent.),	400	6,706
Total,		$115,211

THE FOLLOWING TABLE SHOWS THE AMOUNT OF TAXES LEVIED IN THIS CITY SINCE 1868, AND THE RATE PER THOUSAND, FOR STATE, COUNTY, AND CITY PURPOSES; ALSO THE NUMBER OF POLLS.

Year.	Valuation of Real Estate.	Valuation of Personal Property.	State Tax.	County Tax.	City Tax.	Overlay.	No. of Polls.	Rate of Tax.
1869,	$8,277,900	$14,652,100.00	$49,425	$19,461.85	$287,000	$9,340.15	4,906	$15.50
1870,	8,774,500	14,221,514.00	49,425	17,840.02	290,000	9,475.20	5,251	15.00
1871,	9,115,600	13,844,651.67	49,425	22,705.48	293,300	12,599.52	5,333	16.00
1872,	10,050,800	13,742,898.00	32,280	18,943.65	356,000	13,181.96	5,577	17.20
1873,	11,125,700	14,114,364.20	36,315	23,679.57	349,000	11,454.46	5,780	16.20
1874,	11,665,400	13,846,904.95	32,280	27,874.24	354,000	11,005.10	5,930	16.20
1875,	11,946,600	14,428,674.00	32,280	28,415.48	383,000	17,136.07	6,226	17.00
1876,	12,411,200	14,339,002.00	26,244	23,859.86	387,000	20,251.49	6,651	16.60
1877,	12,609,200	13,524,097.00	21,870	23,859.86	436,200	17,273.46	6,562	18.60
1878,	12,808,700	13,137,011.20	14,580	25,249.76	371,500	17,259.61	6,729	16.00
1879,	12,898,300	12,874,418.00	7,290	25,666.72	386,000	17,497.36	6,891	16.40
1880,	13,138,400	13,137,519.00	21,870	28,377.03	361,250	15,080.89	7,028	15.70
1881,	13,505,400	13,609,922.00	21,870	26,871.30	437,300	16,084.49	7,025	18.00
1882,	14,138,300	13,974,587.00	29,160	25,689.88	434,200	17,605.64	7,340	17.50
1883,	15,109,300	15,180,305.00	25,770	29,468.95	452,400	16,614.41	7,694	16.80
1884,	15,635,900	15,718,182.00	34,360	26,668.72	462,700	13,031.04	8,141	16.60
1885,	16,293,800	15,104,090.00	25,770	27,735.50	457,950	17,028.11	8,349	16.30
1886,	16,778,900	15,416,695.50	27,015	33,883.77	456,300	15,328.18	8,699	16.00
1887,	17,372,600	15,309,658.00	40,522½	38,485.28	489,700	18,075.50	9,056	17.40
1888,	18,023,700	15,430,647.00	40,522½	41,274.10	486,411	19,364.29	9,424	17.00

Average rate for 20 years, $16.60.

CITY OF NEW BEDFORD.

IN COMMITTEE, March 15, 1889.

The sub-committee appointed by the Committee on Finance to appraise the city property and prepare a schedule of the same, have attended to that duty, and submit the following report, viz.:

POOR DEPARTMENT:		
Almshouse and outbuildings,	$26,000	
Old almshouse and outbuildings,	1,500	
Small pox hospital,	1,000	
Farm, containing 70 acres,	12,500	
Furniture in almshouse,	2,700	
Furniture in hospital,	75	
Farming and mechanics' tools,	450	
Stone machine,	50	
Tedders, horse-rake, manure-spreader, etc.,	400	
Carts, gears, and lumber wagons, etc.,	1,300	
Ambulance,	300	
Horses, oxen, cows, hogs, and poultry,	1,800	
Hay, grain, vegetables, pork, etc.,	2,425	
Wood and coal shed, corner North Second and North streets,	3,000	
Wood in shed,	500	$54,000
HIGHWAYS AND STREETS DEPARTMENT:		
Sundries, as per Superintendent's report,		20,300
SEWER DEPARTMENT:		
Sundries as per Superintendent's Report,		2,600
STREET LIGHT DEPARTMENT:		
Gas and naphtha lamps, posts, and lanterns,	$7,150	
Two houses for oil, etc.,	300	
Tools for Petroleum Inspector,	50	7,500
PUBLIC BUILDINGS, LAND, ETC.:		
City hall and lot,	$70,000	
City library building and lot,	75,000	
Amount carried forward,		$84,400

Amount brought forward,		$84,400
City common,	$50,000	
Rural cemetery,	20,000	
Oak Grove cemetery,	15,000	
Pine Grove cemetery,	800	
Central police station and lot,	18,000	
Willis street police station and lot,	2,500	
West police station,	325	
South police station,	250	
Volumes in the City Library,	46,000	
Scales at city stables,	300	
Land on Clark's Point,	200	
Powder magazine,	450	
South pound lot,	200	
Ward house and lot, Fifth ward,	1,400	
Ward house and lot, Sixth ward,	1,600	
Standard weights and measures,	300	
Surveying instruments,	300	
Two brass field-pieces, muskets, etc.,	1,300	
Police station and lot, corner Bowditch and Weld streets,	16,000	
New city stable and lot,	32,375	352,300
SCHOOL DEPARTMENT:		
Acushnet school house and lot,	$1,500	
Acushnet avenue " "	25,000	
Arnold street " "	900	
Cannonville " "	1,500	
Cedar street " "	6,500	
Cedar Grove street " "	25,000	
Clark's Point " "	800	
Dartmouth street " "	5,000	
Fifth street " "	50,000	
Fourth street " "	7,000	
Grove " "	2,500	
High " "	127,000	
High street " "	2,000	
Kempton street " "	5,000	
Linden street " "	2,500	
Maxfield street " "	20,000	
Merrimac street " "	18,000	
Middle street " "	30,000	
North (Tobey road) " "	500	
Amount carried forward,		$436,700

Amount brought forward,		$436,700
Parker street school house and lot,	$50,000	
Plainville " "	1,000	
Rockdale " "	1,200	
William street " "	5,000	
Apparatus in school houses,	12,000	
Truant school house,	1,700	
Thompson street school house and lot,	36,000	
Harrington school house lot,	32,000	469,600
FIRE DEPARTMENT:		
Engine house and lot, Acushnet,	$600	
" " Hillman street,	12,000	
" " Purchase street,	12,000	
" " Purchase street,	12,000	
" " Sixth street,	13,000	
" " Fourth street,	13,000	
Lot on Durfee street,	1,400	
Steam fire engine Onward, No. 1,	2,500	
" " Progress, No. 2,	3,600	
" " Excelsior, No. 3,	500	
" " C. Howland, No. 4,	3,600	
" " Z. Hillman, No. 5,	3,000	
" " Fred. Macy, No. 6,	3,600	
" " Old No. 2,	2,500	
Seven hose carriages,	4,500	
Hand engine,	200	
Hayes truck,	3,000	
Hook and ladder carriage and ladders,	1,800	
Three sleigh reels,	300	
Hose,	9,000	
Twenty-five horses and harnesses,	6,000	
Seven wagons,	1,500	
Fire alarm telegraph, including bells, strikers, etc.,	14,000	
Sundries,	2,000	125,600
NEW BEDFORD WATER WORKS,		1,200,000
		$2,231,900

RECAPITULATION.

Poor Department,	$54,000	
Highways and Streets Department,	20,300	
Sewer Department,	2,600	
Street Light Department,	7,500	
Public buildings, land, etc.,	352,300	
School Department,	469,600	
Fire Department,	125,600	
New Bedford Water Works,	1,200,000	$2,231,900

Respectfully submitted.

JAMES FERGUSON,
JOSEPH DAWSON,
WILLIAM HINDLE,
} Committee.

AUDITOR'S TRIAL BALANCE, JAN. 7, 1889.

Dr.

N. B. Water Works (as Public Property),	$1,200,000.00	
Public Property (other than Water Works),	983,600.00	
Sinking Fund Commissioners,	52,897.77	
Real Estate Tax Account,	340.63	
Commonwealth of Massachusetts, Chap. 252,	3,028.43	
Appropriations, General, 1886,	203.39	
Appropriations, General, 1887,	6,201.53	
Appropriations, General, 1888,	18,399.40	
Appropriations, Special, 1888,	125,989.32	
Commonwealth of Massachusetts, Chap. 301,	3,854.40	$2,394,514.87
City Treasurer, balance of cash,		39,825.06
		$2,434,339.93

Cr.

Trust Funds,	$115,100.00	
Bonds,	1,208,000.00	
Balance of Public Property,	928,497.77	
N. B. School Committee, Howland Fund,	2,896.66	
Temporary Loan,	125,000.00	
Free Public Library, Trustees,	9,371.93	
Public Schools, Dog Fund,	1,097.17	
City Stable and Lot,	2,500.00	
Harrington School House and Lot,	15,117.75	
Cemetery Funds,	7,214.93	
N. B. School Committee, Jonathan Bourne Prize Fund,	30.00	
N. B. Water Works,	18,823.65	
Free Public Library, Dog Fund,	570.07	
Incidentals,	120.00	$2,434,339.93

City of New Bedford,

Auditor's Office,

January 7, 1889.

WILLIAM B. TOPHAM,

City Auditor.

We have examined the foregoing and find it correct.

EDWARD T. PIERCE,
WILLIAM A. TUCKER,
GEORGE W. PARKER,
HARRY A. SMITH,

Sub-committee of the Committee on Finance, appointed to examine the books and accounts of the Auditor and Treasurer.

Approved:

CHARLES F. SHAW,
LUTHER G. HEWINS, JR.,
WILLIAM N. CHURCH, JR.,
JOHN H. BARROWS,
ELIOT D. STETSON,
} Committee of Audit.

STATEMENT

OF THE

COLLECTOR OF TAXES,

FOR THE

Financial Year Ending January 7, 1889.

In Board of Aldermen,
Feb. 28, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
Feb. 28, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

Statement of the Collector of Taxes.

1888.

City of New Bedford,
Collector's Office,
January 7, 1889.

To the City Council:

Gentlemen, — I herewith respectfully present to you my account as Collector of Taxes, embracing a statement in full of the various transactions in this department, for the financial year ending at this date.

COLLECTOR'S STATEMENT FROM 1882 TO 1887 INCLUSIVE.

Financial Year.	Unpaid, Jan. 2, 1888.	Paid and remitted.	Unpaid, Jan. 7, 1889.
1882,	$5,276.77	$47.75	$5,229.02
1883,	5,783.75	82.96	5,700.79
1884,	6,153.56	78.70	6,074.86
1885,	6,760.54	107.28	6,653.26
1886,	8,572.77	2,932.53	5,640.24
1887,	18,581.46	6,361.03	12,220.43
	$51,128.85	$9,610.25	$41,518.60

COLLECTOR'S STATEMENT.

TAXES OF 1888.

CHARGES.

Amount of tax bills,		$587,571.90
State tax,	$40,522.50	
County tax,	41,274.10	
City tax,	486,411.00	
Overlay,	19,364.30	$587,571.90

PAYMENTS.

State tax,	$40,522.50	
County tax,	41,274.10	
City treasurer,	458,011.60	
Discount,	28,453.55	
Abatements by Assessors,	634.40	
Balance unpaid,	18,675.75	$587,571.90

The balance of the taxes of 1888 unpaid is but 3.18 per cent. of the whole assessment.

The tax rate for 1888 was $17 per one thousand; of that rate, $2.43 was for the state and county taxes, which in 1888 constituted one seventh of the assessments of the city. The increase in this class of taxes since 1886 amounted to $22,722. The several amounts received from the State Treasurer during the year, for corporation and other taxes, will appear in my report to you for the past year as City Treasurer.

Respectfully submitted.

JAMES H. HATHAWAY,

Collector of Taxes.

STATEMENT

OF THE

CITY TREASURER

FOR THE

Financial Year Ending January 7, 1889.

Statement of the City Treasurer.

January 7, 1889.

CITY OF NEW BEDFORD,
TREASURER'S OFFICE, January 7, 1889.

To the City Council:

GENTLEMEN, — I herewith present to you, as required by the ordinances of the city, my account as City Treasurer for the financial year ending at this date.

Very respectfully,

JAMES H. HATHAWAY,
City Treasurer.

PAYMENTS INTO THE TREASURY.

The balance in the treasury at the close of the last financial year, and the receipts during the year ending at this date, are set forth in the statement that follows, viz. :

Balance, January 2, 1888,		$17,544.41
PAYMENT INTO THE TREASURY BY THE COLLECTOR OF TAXES.		
1882,	$47.75	
1883,	82.96	
1884,	78.70	
1885,	107.28	
1886,	2,932.53	
1887,	6,361.03	
1888,	458,011.60	467,621.85

APPROPRIATIONS, GENERAL, 1886.

Amount received from State Treasurer:	
Part of corporation tax of 1888,	$5,000.00

APPROPRIATIONS, GENERAL, 1888.

Amount received from State Treasurer:	
Part of corporation tax of 1888, as estimated by the City Council,	30,000.00

APPROPRIATIONS, SPECIAL, 1887.

From Sewer Bonds issued,	$35,000.00	
From Improvement Bonds issued,	15,000.00	50,000.00

APPROPRIATIONS, SPECIAL, 1888.

From Water Bonds issued,	20,000.00

CEMETERIES.

Received from sale of lots, &c.:		
Oak Grove,	$1,345.00	
Rural,	1,785.00	
Amount twice audited, returned,	1.50	3,131.50

CEMETERY FUNDS.

Amounts received from sundry parties for the permanent care of lots:	
C. F. Booth, Rural,	$75.00
Frederick A. Brownell, Rural,	50.00
Aaron Davis, Oak Grove,	25.00
William H. DeWolf, Rural,	75.00
Jacob Eaton, Rural,	50.00
Harriet A. Gellett, Rural,	100.00
Seth H. and William Ingalls, Oak Grove,	100.00
Caleb T. Jenney, Rural,	100.00
Leonard Jenney, Rural,	100.00
Ezra Kelley, Rural,	100.00
Lemuel Kollock, Rural,	100.00
William Maxim, Oak Grove,	50.00
Elizabeth Owen, Rural,	75.00

Ellery Records, Oak Grove,	$50.00	
Emily P. Robeson, Oak Grove,	100.00	
Mary A. Rose, Rural,	50.00	
Sarah E. Simmons, Oak Grove,	50.00	
Shubael Smith, Oak Grove,	50.00	
Thomas Snell, Oak Grove,	100.00	
Calvin Staples, Oak Grove,	100.00	
Star in the East Lodge and Adoniram R. A. C., F. A. M., Rural,	50.00	
Jireh Swift and wife, Rural,	50.00	$1,600.00

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 301, LAWS OF 1879.

Of State Treasurer, advances of 1887,	$3,148.75	
Amounts uncalled for,	12.00	3,160.75

COMMONWEALTH OF MASSACHUSETTS.

MILITARY AID UNDER CHAPTER 252, LAWS OF 1879.

Of State Treasurer, one half of the disbursements to Jan. 1, 1888,	$3,149.18	
Amounts uncalled for,	32.00	3,181.18

FIRE DEPARTMENT.

Received from sundry sources, as follows:

Filling tank and use of hose,	$4.00	
Frederick Macy, chief engineer,	5.00	
Sale of horse,	100.00	
Sale of copper, &c.,	235.14	
Highways and Streets,	147.50	
Incidental Expense Account,	405.67	
Poor Department,	243.97	
Sewers,—General Account,	36.00	
Orchard Street,	30.15	1,207.43

FREE PUBLIC LIBRARY — TRUSTEES' ACCOUNT.

Income from sundry bequests and gifts:

Sylvia Ann Howland, bequest,	$3,000.00	
George Howland, Jr., gift,	96.00	
Charles W. Morgan, bequest,	60.00	
Oliver Crocker, bequest,	60.00	
James B. Congdon, gift,	30.00	
George Howland, bequest,	271.11	3,517.11

FREE PUBLIC LIBRARY—DOG FUND.

One half of the receipts from the County of Bristol for dog licenses,	$987.69

HIGHWAYS AND STREETS.

The receipts from sundry sources were as follows:

Acushnet Street Railway, labor, &c.,	$469.16	
City Clerk, labor entering sewers,	148.00	
Cook & Viall, drain and labor,	11.50	
Horatio G. Dean, drain and labor,	9.51	
S. H. Delano, labor,	263.78	
Moses E. Hatch, drain,	70.00	
Henry C. Hathaway, drain,	17.54	
Lawton Bros., drain,	14.05	
Wm. H. Luby, et. al., sale of pork,	133.14	
N. B. Manufacturing Co., drain,	20.00	
Old Colony Railroad, labor,	118.29	
Old Colony Steamboat Co.,	25.00	
Morgan Rotch, labor,	14.65	
T. M. Stetson, stone, labor, &c.,	119.62	
Sale of buildings, High street,	214.70	
Sale of land, High street,	11,432.09	
Sundry parties, drains,	31.40	
Sundry parties, material,	12.23	
Sundry parties, dirt, stone, &c.,	140.39	
Sundry parties, cutting and trimming trees,	30.56	
Sundry parties, twice audited,	20.72	
Sundry departments,	11,053.16	
Use of roller, Dartmouth,	420.00	24,789.49

INCIDENTALS.

Charles S. Ashley, amount returned,	$50.00	
George D. Richards, twice audited,	3.45	
Charles R. Sherman, twice audited,	2.00	55.45

NEW BEDFORD SCHOOL COMMITTEE.

Income from Trust Funds:	
Sylvia Ann Howland bequest,	3,000.00

NEW BEDFORD SCHOOL COMMITTEE—JONATHAN BOURNE PRIZE FUND.

Income from fund to January 1, 1889,	60.00

NEW BEDFORD SCHOOL COMMITTEE — DOG FUND.

Received of the County of Bristol, one half of the dog licenses,	$987.69

NEW BEDFORD WATER WORKS.

Received from sundry sources, as follows:

From takers, rates,	$48,737.61	
For services,	4,786.75	
For main pipe,	250.53	
For meters and repairs,	39.00	
For fines,	18.00	
For rents,	96.00	
Sales of hay and horse,	204.00	54,131.89

POLICE DEPARTMENT.

Received from the Third District Court of Bristol, and from other sources, as follows:

Highway Department,	$52.35	
Officers' fees and mittimuses,	5,083.77	
Rent of court room,	400.00	5,536.12

POOR DEPARTMENT.

The receipts have been as follows:

CITIES AND TOWNS:

Acushnet,	$121.75
Boston,	181.70
Bridgewater,	55.00
Brookline,	60.00
Canton,	9.00
Carver,	57.00
Chatham,	8.00
Dartmouth,	241.50
Edgartown,	3.50
Fairhaven,	317.75
Fall River,	256.70
Falmouth,	131.00
Freetown,	243.15
Holyoke,	36.25
Lawrence,	127.50
Lowell,	42.00
Ludlow,	111.20
Middleboro,	46.00
Nantucket,	95.25
Natick,	40.00

Northbridge,	$15.00		
Norton,	8.00		
Orleans,	10.00		
Pittsfield,	127.25		
Plymouth,	88.00		
Provincetown,	7.75		
Rehoboth,	5.75		
Rochester,	56.00		
Salem,	74.00		
Southwick,	62.00		
Stoughton,	2.15		
Taunton,	112.00		
Waltham,	36.50		
Wareham,	48.00		
Wellfleet,	161.57		
Westport,	131.75		
Weymouth,	64.00	$3,193.97	
From State, support and burials,		2,579.98	
Almshouse, city:			
Farm produce,	$353.28		
Sale of oxen,	202.00		
F. Macy, hay,	38.00		
T. S. Corson, pigs,	24.00		
Fire department,	624.95		
Highways and streets,	135.70		
Military aid,	154.72		
Truant school,	1,482.51	3,015.16	
Received for support at hospitals and from other sources:			
B. Allen,	$18.10		
E. P. Allen,	70.81		
M. Considine,	179.73		
L. E. Hathaway,	112.82		
J. S. Macy, burial,	15.00		
Hugh McHugh, wife,	50.00		
Elenor Smith,	7.42		
S. W. Smith,	84.96		
B. R. Watson,	88.27		
P. Winterson,	41.50		
Isaiah Wood, for son,	173.05	841.66	$9,630.77

REAL ESTATE TAX ACCOUNT.

Louisa Dana, tax 1885,	$41.38	
James Doull, tax 1885,	100.23	
James Doull, tax 1885,	61.42	
Manuel Marshall, tax 1885,	23.47	$226.50

SCHOOLS — INCIDENTALS.

DeWolf & Vincent, amount twice audited,	3.30

SEWERS — GENERAL ACCOUNT.

From sundry accounts,	$5,125.27	
S. C. Hart, use of diver and tug,	132.00	5,257.27

SEWERS — COURT STREET.

Highway Department,	100.00

SEWERS — GRIFFIN STREET.

Hickory and Ward streets sewer,	8.40

SEWERS — HICKORY AND WARD STREETS.

Sundry accounts,	8.40

SEWERS — MT. PLEASANT STREET.

Sewers, General Account,	205.99

TEMPORARY LOAN.

Received from notes issued by authority of the City Council,	480,000.00

TRUST FUNDS.

George O. Crocker, Bequest to the Free Public Library,	10,000.00

UNAPPROPRIATED FUNDS.

The receipts were as follows:

Betterments,—	Coggeshall street,	$399.96	
	Sawyer street,	132.04	$532.00
Interest,—	Deposits,	$1,235.19	
	Premium on bonds,	1,231.00	
	Premium on note,	8.50	
	Taxes,	578.50	3,053.19

Licenses and fees,—	Circuses, &c.,	$159.00		
	Liquor,	19,541.25		
	Milk,	155.00		
	Peddlers,	125.00		
	Petroleum, &c.,	1,059.00		
	Sealer,	75.35	$21,114.60	
Rents,—	Armory,	$400.00		
	City Hall,	137.10	537.10	
Error in roll, returned,			1.20	
State, Corporation taxes,			23,762.07	
Permits to enter sewers,			270.00	
Sundry sales, old material, &c.,			46.50	
Tuition non-resident pupils,			489.16	
Amounts received for sewer taxes:				
Acushnet avenue,		$30.70		
Allen street,		280.41		
Atlantic street,		180.37		
Austin street,		170.44		
Blackmer street,		205.11		
Bonney street,		64.61		
Chestnut street,		74.88		
Coggeshall street,		2,016.12		
Cottage street,		139.05		
County street,		26.65		
Court street, No. 2,		267.51		
Dartmouth street,		72.82		
Delano street,		28.65		
Division street,		44.99		
Front street,		267.51		
Griffin street,		52.99		
Locust street,		484.26		
Maxfield street,		533.55		
Mt. Pleasant street,		87.32		
Richmond street,		125.45		
Rivet street,		60.91		
Sherman street,		153.68		
South street,		125.59		
So. Second street,		215.62		
Tremont street,		175.18		
Union street,		682.17		
Warwick street,		112.31		
Weld street,		365.08	7,043.93	$56,849.75
Total receipts, including balance, Jan. 2, 1888,				$1,257,802.94

PAYMENTS.

Payments have been made upon the warrants of the mayor, as follows:

Cemeteries,		$8,327.71
City stable and lot,		22,980.44
Com. of Mass., military aid, chapter 252,	$6,691.61	
Com. of Mass., military aid, chapter 301,	3,638.00	10,329.61
Engine house and lot, Durfee street,		1,378.65
Fire Department,		38,876.18
Free Public Library,—Dog Fund,	$1,042.85	
Incidentals,	5,851.88	
Trustees' account,	5,235.60	12,130.33
Harrington school house and lot,		27,766.41
Highway Department,		103,895.66
Incidentals,		43,308.16
Light Department,		27,721.86
New Bedford & Fairhaven Bridge,		1,572.91
New Bedford Water Works,		85,548.73
Police Department,		61,700.45
Poor Department,		40,543.55
Public Debt,— Principal,	$45,000.00	
Interest on bonds,	64,705.00	
Interest, trust funds,	6,407.11	
Sinking funds,	17,200.00	133,312.11
Public Schools,—Jonathan Bourne Fund,	$43.17	
Dog Fund,	400.00	
Howland Fund,	2,363.54	
Incidentals,	27,100.87	
Parker street, heating,	2,000.00	
Repairs buildings,	4,150.09	
Teachers' pay,	78,792.02	
Truants,	2,291.56	117,141.25
Real Estate Tax Account,		149.73
Repairs City Property,		11,755.14
Salaries,		13,779.53
Sewers,— General Account,	$22,775.66	
Allen street, No. 2,	8.10	
Atlantic street,	518.66	
Austin street, No. 3,	206.55	
Chestnut street,	61.15	
Collins street,	206.95	
Court street, No. 2,	1,006.93	

Elm street, No. 2,	$248.82	
Griffin street,	939.01	
Hall street,	229.48	
Hickory and Ward streets,	3,098.25	
Locust street, No. 2,	1,114.24	
Mt. Pleasant street,	596.91	
Oak and Grape streets,	38.93	
Orchard street,	7,149.08	
Pearl and Willis streets,	12,125.24	
Richmond street,	509.81	
Rivet street, Nos. 1 and 2,	3,792.74	
Sherman street,	1,824.07	
South Second street, No. 2,	798.12	
South Water street, No. 2,	101.00	
Union street, No. 3,	1,197.84	
Warwick street,	67.25	
Weld street,	195.00	
West Maxfield street,	1,949.68	$60,759.47
Temporary loan,		395,000.00
		$1,217,977.88
Balance, cash in Treasury, Jan. 7, 1889,		39,825.06
		$1,257,802.94

STATEMENT

OF THE

SINKING FUNDS

FOR THE

Financial Year Ending January 7, 1889.

In Board of Aldermen,

Jan. 31, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,

Jan. 31, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT OF THE TREASURER OF SINKING FUNDS.

CITY OF NEW BEDFORD,
TREASURER'S OFFICE, January 7, 1889.

To the Commissioners of Sinking Funds of the City of New Bedford:

GENTLEMEN, — I herewith most respectfully present to you my account as Treasurer of the Sinking Funds, for the financial year ending at this date.

There are at this time nine classes of bonds that are secured by sinking funds,— an addition of three since my last report,— namely: Thirty-five thousand dollars of Sewer Bonds, issued April 1, 1888, for twenty years; fifteen thousand dollars of Improvement Bonds, issued April 1, 1888, for ten years; and twenty thousand dollars of Water Bonds, issued April 1, 1888, for thirty years.

Sinking funds to secure the issue of water bonds are now derived from the receipts from water rates, through an Act of the Legislature of 1888. Twenty thousand dollars of Water Bonds, issued in April last, were the first to come under the Act.

Amount of Sinking Funds, Jan. 2, 1888,		$33,004.66
APPROPRIATIONS BY THE CITY COUNCIL.		
For $80,000 Bonds of April 1, 1885,	$6,500.00	
25,000 " " 1886,	2,300.00	
30,000 " " "	1,200.00	
30,000 " Oct. 1, 1886,	1,200.00	
15,000 " April 1, 1887,	600.00	
35,000 " " "	2,800.00	
35,000 " " 1888,	1,400.00	
15,000 " " "	1,200.00	
20,000 Water Bonds, April 1, 1888,	600.00	17,800.00
Interest on investment,		2,093.11
		$52,897.77

INVESTMENTS FOR THE YEAR.

Amount on deposit at the Citizens National Bank, interest credited monthly,	$50,804.66
Interest to January 1, 1889,	2,093.11
Total trust funds,	$52,897.77

AMOUNT OF SINKING FUNDS IN EACH CLASS.

Sinking Funds, No. 1,	$28,509.10
" " 2,	7,442.99
" " 3,	3,883.17
" " 4,	2,543.20
" " 5,	1,271.62
" " 6,	5,933.12
" " 7,	1,244.21
" " 8,	1,451.57
" " 9,	618.79
	$52,897.77

Respectfully submitted.

JAMES H. HATHAWAY,

Treasurer.

1889—CITY DOCUMENT NO. 9.

ANNUAL REPORT

OF THE

CHIEF OF POLICE

OF THE

CITY OF NEW BEDFORD,

TO THE

City Council,

FOR THE YEAR 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

In Board of Aldermen,
January 17, 1889.

Received and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
1 mo. 17, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

REPORT.

NEW BEDFORD, December 31st, 1888.

To His Honor the Mayor and Gentlemen of the City Council:

I have the honor to submit my first annual Report, showing the condition of the department, and a synopsis of the work performed. The force, as now organized, consists of one chief, two captains, six lieutenants, and forty-seven patrolmen, one lieutenant and one patrolman having been added, making a total of fifty-six.

Thirteen hundred forty-five arrests have been made during the year, classified as follows (on warrants 233):

Assault and battery,	114	Lewd and lascivious cohabitation,	1
Assault, felonious,	5	Malicious setting fire,	2
Assault, indecent,	2	Malicious injury to personal property,	1
Assault on an officer,	2	Malicious mischief,	5
Adultery,	5	Malicious breaking glass,	2
Attempt to poison,	1	Non-support,	23
Breaking, entering, and larceny,	19	Obtaining goods under false pretences,	1
Bastardy,	5	Permitting minors to peddle,	1
Cruelty to dumb animals,	1	Obstructing an officer,	4
Contempt of court,	3	Permitting a dangerous dog to run at large,	1
Disturbing religious meeting,	2	Receiving stolen goods,	2
Disturbing the peace,	72	Stubborn children,	2
Drunkenness,	920	Selling mortgaged property,	1
Embezzlement,	5	Tramps,	6
Fraud,	1	Threatening bodily harm,	1
Idle and disorderly,	14	Trespass,	1
Illegal sale oleomargarine,	2	Unlawfully using a team,	4
Illegal sale of liquor,	3	Vagrants,	7
Insane,	31	Violation city ordinances,	1
Keeping liquor nuisance,	17	Violation fishing laws,	4
Keeping noisy and disorderly house,	5		
Larceny,	46		

NATIVITY OF PRISONERS.

United States,	562	Italy,	3
British Provinces,	14	Portugal,	33
Canada,	98	Sweden,	7
Ireland,	443	Scotland,	16
England,	142	Norway,	3
France,	6	Poland,	6
Germany,	10	Wales,	2

Of the persons arrested, 1205 were males, 140 were females, 286 were non-residents, and 80 were minors; 790 were committed to prison, 31 to the insane asylum, 34 appealed from sentence, 22 were found not guilty and discharged, 1 was delivered to an out-of-town officer, 34 defaulted, 410 paid fine and costs, and there are 23 cases now pending.

MISCELLANEOUS BUSINESS.

Amount of property reported stolen,	$2366.00	Dogs killed,	27
Amount of property reported recovered,	$1967.00	Fire alarms given,	7
Buildings found open and secured,	60	Fires extinguished without alarms,	9
Cases investigated,	888	Intoxicated persons helped home,	6
Defective lamps,	6	Lost children found and restored,	16
Defective streets and sidewalks,	6	Water running to waste,	20
Disturbances suppressed,	192		

LODGERS.

Nine hundred ninety-two persons have been furnished with lodgings during the year, of whom 986 were males, and 6 were females; 487 were Americans, 505 were foreigners, 21 were minors, and 988 were non-residents.

NATIVITY OF LODGERS.

United States,	487	Germany,	1
British Provinces,	11	Portugal,	2
Canada,	9	Sweden,	14
Ireland,	302	Scotland,	14
England,	148	Norway,	3
France,	1		

STATION HOUSES.

The several station houses are in good condition and will require but small outlay the coming year. The central station house needs painting outside, very little else being required. The first of the year it was found that this house, though comparatively new, was overrun with vermin. Upon investigation it was ascertained that they came from the lodgers' cells in the basement, which, at the time the building was remodelled, were built from the lumber taken from the old cells torn out at that time.

The Committee on Public Property, being informed of the state of affairs, took the matter in hand, and replaced the wooden cells with brick, fitting them with iron bed frames and movable berth boards, which can be removed and cleansed as often as desired. The cells, as now constructed, are as near vermin-proof as possible, and the improvement thus made has effectually cleaned the building from the pests. The heating apparatus at the Weld street station is defective as to the circulating pipes, and I would repeat the recommendation of my predecessor, viz.: that another radiator be placed therein at once, as it is impossible to heat the rooms with the present circulation. The Committee were informed of the fact and viewed the premises and were fully convinced of the necessity of something being done to remedy the difficulty; and had they the time, I have no doubt the matter would have been attended to.

The erection of mills at the south and southwest section

of the city, and the consequent increase of business, suggests the need of a station house in the vicinity. I would therefore recommend that one be built at an early day.

WOMEN'S STATION HOUSE.

The establishment of a separate lock-up for women has, in my opinion, proved a success. Though it may not have accomplished all that was intended, yet it is an improvement, and under the excellent management of the faithful and efficient matron, Mrs. Margaret Swain Bullard, is a model of neatness, and her kind care and pleasant manner toward the unfortunate beings with whom she comes in contact can but be beneficial.

THE POLICE.

The discipline of the force has been good, two patrolmen only having been suspended, viz.: William J. Clarke and Thomas H. Wilson, who were suspended for the term of sixty days without pay for violation of Rule 20, Police Regulations, relating to the use of intoxicating liquor while on duty. The death on June 24th of patrolman Motin Yancy, a reliable and conscientious officer, who served the city faithfully for a term of six years, caused a vacancy, as did also the promotion of patrolman Timothy C. Allen to the grade of lieutenant. Two officers have been appointed on probation, John Hernon and John Telford, and there are now no vacancies. Two officers were placed on mounted duty during the summer months Sundays, and, so far as I have learned, gave general satisfaction.

SPECIAL POLICE.

I have been compelled to employ quite a number of special police, in order to comply with the frequent demands of the public. Joseph W. Spooner and John E. Little have

been on duty at the Head of the River Sundays and evenings. Complaints from the people of Plainville being frequent, I placed special officer Isaac M. Cole on duty there, and he seems to have succeeded in maintaining order in that vicinity, as I have received no complaint since.

IN GENERAL.

The increase of crimes and misdemeanors the past year is, in my judgment, largely due to the increase of population in the mill districts, particularly that of drunkenness. I am led to this conclusion from inquiring into the history of several cases to which my attention has been called and finding they had been but a few weeks in the country. I think it fair to assume that the same is true of many others. In June last, one of our citizens was swindled to the amount of $6000 by bunco steerers, most of which property, I am informed, has been recovered through compromise with the swindlers. Other than this, we have had no serious burglaries or crimes of any magnitude, and, upon the whole, I think we may say we have had a fairly quiet year.

In conclusion, I desire to tender my thanks to His Honor the Mayor and Committee on Police for the interest manifested in this department.

Respectfully submitted.

JOHN COREY,
Chief of Police.

REPORT

OF THE

COMMISSIONERS OF SINKING FUNDS.

NEW BEDFORD, January 23, 1889.

At a meeting of the Commissioners of Sinking Funds of the City of New Bedford, held this day, it was

Voted, To adopt the foregoing statement of the Treasurer as the Report of the Commissioners of the Sinking Funds of the City of New Bedford, required by the Statutes of Massachusetts to be made annually to the City Council.

ISAAC W. BENJAMIN,
WM. A. CHURCH,
WM. H. MATHEWS,
} Commissioners.

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1889—CITY DOCUMENT No. 10.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF STREETS

OF THE

City of New Bedford,

TO THE

City Council,

FOR THE YEAR 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

REPORT.

NEW BEDFORD STREET DEPARTMENT,
SUPERINTENDENT'S OFFICE,
JANUARY 1, 1889.

To the Honorable Mayor and City Council of the City of New Bedford:

GENTLEMEN, — Herewith I have the honor to submit my annual report, giving location and cost of work done in the departments under my charge during the year 1888, together with schedules of property belonging to the departments, and the estimated value thereof.

Very respectfully,

NATHL. H. GREENE,

Superintendent of Streets, Sewers, and Bridges.

TABLE No. 1.

Macadam Streets, New and Old.

Streets.	Between what points.	Length. Feet.	Tons Stone.	Cost.	Remarks.
Allen,	Page and Cottage,	1,350	1,402	$1,725.99	New, 22 feet wide.
"	Rural street and Dartmouth line,	480	153	266.15	Repaired.
Acushnet ave.,	Weld street and Lund's corner,	7,300	5,321	8,455.87	Repaired, 23 feet wide.
Ash,	Maxfield and Hillman,	54	19	40.52	New, 23 feet wide.
Bedford,	Fifth and County,	515	44	94.40	Repaired.
"	Cottage and Anthony,	180	102	143.75	New, 17 feet wide.
Cottage,	Bedford and Dartmouth,	820	832	1,048.17	New, 17 feet wide.
"	Court and Union,	240	162	180.12	New, 17 feet wide.
"	Clinton and Maple,	126	84	105.90	Repaired.
"	Bedford and Grove,	220	46	133.82	"
Clinton,	County and Orchard,	465	282	319.57	New, 17 feet wide.
County,	Division and Cove,	550	572	686.90	New, 28 feet wide.
"	Rivet and Division,	1,000	403	720.90	Repaired, 24 feet wide.
"	Hawthorn and Bedford,	100	18	58.10	Repaired, 24 feet wide.
"	Walnut and Madison,	200	262	283.40	Repaired, 24 feet wide.
Court,	Florence and Reed,	500	149	140.48	Repaired.
Dartmouth,	Allen street and Cemetery gate,	1,500	343	640.69	"
Fourth,	Walnut and Madison,	240	20	27.10	Repaired, 6 feet wide.
Grinnell,	Water and Second,	360	282	409.35	New, 17 feet wide.
"	Acushnet ave. and Fourth street,	210	182	231.30	New, 17 feet wide.
High,	County and Foster,	720	226	279.00	Repaired.
Kempton,	Rockdale ave., west,	2,020	890	1,142.40	"
Linden,	County and Linden,	600	196	310.16	"
Middle,	Sixth and County,	654	116	159.07	"
"	Purchase street and Acushnet ave.,	90	45	60.30	"
Maxfield,	Spruce and Cedar,	138	60	61.22	New, 17 feet wide.

Maxfield,	County and Thomas,	140	44	56.85	New, 17 feet wide.
Mill,	Pleasant and Foster,	187	64	84.05	New, 17 feet wide.
Madison,	Fourth and Fifth,	208	44	74.00	Repaired.
Pleasant,	Hillman and North,	268	276	311.57	New, 18 feet wide.
"	Linden and Weld,	535	716	794.01	New.
"	William st. and Mechanics lane,	120	4	14.25	Repaired.
Pearl,	East of Acushnet ave.,	300	24	49.15	"
Rural,	Allen and Grape,	200		10.07	"
Second,	North and Maxfield,	540	284	337.00	New.
"	Madison and Coffin,	50	26	43.50	Repaired.
"	Union and Spring,	100	30	52.49	"
Spring,	Second and Water,	300	238	331.67	New, 22 feet wide.
School,	Fifth and Sixth,	210	66	104.72	Repaired.
"	Second street and Acushnet ave.,	190	90	115.02	"
Shawmut ave.,	Willis and Parker,	310	178	245.30	New.
Union,	Ash and Cottage,	620	318	391.15	Repaired.
Weld,	Purchase and State,	257	248	320.12	New, 18 feet wide.
William,	Pleasant and Purchase,	230	62	119.65	Repaired.
"	Sixth and Eighth,	430	78	259.28	"
Water,	William and Union,	375	96	209.42	"
Setting up machinery, and sundry small repairs,			300	988.86	
		26,202	15,397	$22,636.76	

TABLE No. 2.

Streets Graveled and Graded.

Streets.	Between what points.	Length. Feet.	Cost.
Atlantic,	Union street south,	1,000	$212.78
Ash,	Arnold and Hawthorn,	600	99.05
"	Maxfield and Hillman,	300	57.50
Arnold,	Tremont street west,	200	18.90
Acushnet ave.,	South and Division,	1,000	198.75
"	Lund's corner and Freetown line,	12,600	8,587.91
Anthony,	Grove and Bedford,	400	46.75
Austin,	County and Pleasant,	200	11.75
Allen,	Bonney and Dartmouth,	100	6.70
Bonney,	Rivet and Rockland,	800	258.35
Bay,	Cottage and Ward,	300	28.65
Bowditch,	Weld and Logan,	100	5.10
Blackmer,	County and Second,	500	157.50
Brigham,	Allen and Hawthorn,	1,200	194.84
Belleville rd.,	Main road to Acushnet ave.,	600	131 80
Brownell,	Union and Court,	200	21.12
Birch,	Allen and Dartmouth,	150	17.35
Braleyville rd.	Acushnet ave. west,	4,000	416.93
Coggeshall,	Bowditch and Rock,	1,200	378.10
"	Purchase and County,	250	14.50
Clark,	Purchase and Mount Pleasant,	1,000	227.10
Campbell,	Chestnut and Park,	1,400	199.20
County,	Linden and Purchase,	2,000	356.15
"	Cove street and Cove road,	240	63.00
Chestnut,	Locust and Parker,	350	144.65
Cedar Grove,	Purchase and Bowditch,	200	31.40
Crapo,	Thompson and Rockland,	350	111.85
Chancery,	Willis and Parker,	230	13.00
"	Union and Arnold,	150	12.25
Cottage,	Kempton and Elm,	320	78.95
"	Willis and Parker,	310	236.00
"	Robeson and Locust,	500	208.75
Cove road,	County street and Dartmouth line,	2,350	1,126.57
Coffin ave.,	Acushnet ave. and Purchase street,	150	9.20
Cannon,	Second street and Acushnet ave.,	200	16.20
Division,	County and Crapo,	800	178.70
Davis,	Acushnet ave. east,	200	21.80
Durfee,	Rockdale ave. and Mt. Pleasant st.,	920	259.20
Delano,	County street and Acushnet ave.,	110	49.00
Elm,	Newton and Park,	200	10.80
Emerson,	Union street south,	130	67.85
Front,	Logan and Kilburn,	100	13.75
French ave.,	West side,	2,500	151.95
"	East side,	1,500	45.00
Fifth,	Grinnell and Wing,	320	20.05
Florence,	Kempton and Court,	300	23.15
Fourth,	Bedford and Washington,	1,000	95.30
First,	Howland and South,	400	46.25

Streets Graveled and Graded—*Continued.*

Streets.	Between what points.	Length. Feet.	Cost.
First,	Blackmer and Potomska,	800	$198.75
Grove,	Cottage and Orchard,	300	23.83
Grinnell,	Second street and Acushnet ave.,	200	69.42
"	Fourth and Fifth,	200	64.43
Hillman,	Florence and Hunter,	300	17.75
"	Cottage and Ash,	550	176.05
High,	Water street east,	100	13.75
Hall,	Rockland and Thompson,	100	5.50
Hicks,	Front street and Acushnet ave.,	150	12.20
Hunter,	Maxfield and Kempton,	350	31.42
Hathaway rd.,	Rockdale and Shawmut avenues,	725	158.25
Jenney,	Kempton and Court,	300	43.30
James,	Union and Arnold,	600	123.40
Katharine,	County and Crapo,	850	508.18
Kilburn,	Front and Rock,	130	9.60
King Philip rd.	Acushnet ave. and Braleyville road,	9,000	150.00
Liberty,	Kempton street south,	400	106.50
Lindsey,	Court and Kempton,	250	21.05
Locust,	Chestnut and County,	300	35.10
Logan,	Acushnet ave. and Front street,	300	31.50
Maxfield,	Park street and Rockdale ave.,	1,250	580.58
"	Second street east,	80	10.65
Middle road,	French ave. south,	2,000	76.90
Margin,	Cove street and Cove road,	90	6.60
Myrtle,	Linden and Weld,	280	34.90
Mill,	Acushnet ave. east,	120	5.10
"	Florence street west,	190	11.75
"	Rockdale ave. east,	100	6.75
"	Park and Newton,	100	6.65
Mt. Pleasant l.	Mt. Pleasant street west,	130	5.35
Middle,	Emerson street west,	160	5.45
Mosher,	County and Crapo,	400	102.60
Merrimac,	Acushnet ave. east,	140	6.35
Mt. Pleasant,	Plainville road and F. R. R. R.,	2,400	1,325.37
Mill road,	Acushnet ave. and Main road,	1,300	40.00
North,	Park and Newton,	300	174.25
Newton,	Court street north,	100	20.30
Nelson,	County street west,	150	16.20
Nash road,	Acushnet ave. west,	800	149.20
Nye's lane,	Acushnet ave. east,	350	10.00
Oak,	Dartmouth and Grape,	100	5.20
Orchard,	Bedford and Grove,	200	15.65
Ocean,	Arnold street south,	80	13.10
"	Arnold street north,	120	42.00
Park,	Kempton and Parker,	450	96.30
Purchase,	Weld and County,	600	118.50
Pope,	Chestnut and County,	250	65.45
Pleasant,	Austin and Hazard,	100	6.00
Prospect,	Howland and Grinnell,	500	33.00
Plainville rd.,	O. C. R. R. and Dartmouth line,	3,000	500.13
Peckham,	Acushnet ave. and Acushnet line,	650	20.00

Streets Graveled and Graded — *Concluded.*

Streets.	Between what points.	Length. Feet.	Cost.
Reynolds,	Linden and Clark,	470	$153.00
Rivet,	County and Juniper,	2,100	1,016.25
Rock,	Kilburn and Coggeshall,	1,100	550.76
Richmond,	Parker street north,	250	41.30
Robeson,	Ashland street and Shawmut ave.,	1,000	110.95
"	Shawmut ave. west,	300	44.10
Rockland,	County and Dartmouth,	1,000	281.10
Rockdale ave.,	Parker and Maxfield,	180	13.25
Sawyer,	County and Rock,	400	126.40
Smith,	Park and Cedar,	110	5.65
State,	Linden and Weld,	350	16.10
"	Austin and Hazard,	110	6.60
Summer,	Hillman and Sycamore,	500	40.65
Sycamore,	Summer and Chestnut,	120	6.95
Sisson,	Union and Court,	220	101.35
Second,	South and Cannon,	300	39.95
Shawmut ave.,	Plainville and Hathaway roads,	3,000	66.80
Topham,	Highland street and Shawmut ave.,	100	5.10
Tremont,	Union and Hawthorn,	900	111.80
Tarkiln H. rd.,	Lund's corner and O. C. R. R.,	2,600	55.10
Thompson,	County and Crapo,	300	17.70
Union,	Ash and Sisson,	800	334.08
Winsor,	County and Crapo,	700	211.50
Willis,	Summer street and Shawmut ave.,	350	62.80
Weld,	State and Reynolds,	200	46.60
Wilson,	Durfee and Austin,	100	10.15
Ward,	Allen and Dartmouth,	200	13.00
Wamsutta,	Acushnet ave. and Front,	400	35.25
		94,485	$23,515.90

TABLE No. 3.

Curbing and Gutters.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	William and Union,	91	$16.95	Repaired west side.
"	Spring and School,	490	108.95	Repaired east side.
"	Potomska and Rivet,	28	23.50	New east side.
"	Weld street and Lund's corner,	9,873	1254.46	Repaired west side.
Allen,	Cottage and Borden,	227	97.52	New south side.
Ash,	Bedford and Hawthorn,	450	135.65	New gutter west side.
"	North and Mill,	98	10.00	Repaired west side.
Arnold,	Orchard and County,	69	9.75	Repaired south side.
Bonney,	Washington and Rockland,	404	376.81	New east side.
Bedford,	Fourth and Fifth,	263	68.35	Repaired both sides.
Chestnut,	Locust street north,	156	98.57	New curbing west side.
Cedar,	Locust and Robeson,	200	55.24	Repaired east side.
"	Parker and Locust,	275	55.37	Repaired west side.
"	Hillman and North,	260	181.00	New curbing west side.
"	Willis and Campbell,	198	149.00	New curbing west side.
County,	At Locust,	24	22.75	New curbing two corners.
"	At Washington,	40	17.15	Repaired broad gutter.
Campbell,	Cedar street and Shawmut ave.,	28	19.78	New north side.
"	Chestnut and Cottage,	200	138.48	New north side.
Cottage,	Arnold and Union,	155	119.60	New east side.
"	At Campbell,	12	8.67	New curbing corner.
"	At Willis,	12	8.68	New curbing corner.
"	Grove and Bedford,	63	8.17	Repaired east side.
"	Mill and North,	435	379.33	New east side.
"	Union and Court,	200	19.62	Repaired east side.
Coggeshall,	Acushnet ave. east,	100	7.10	Repaired south side.

Curbing and Gutters — *Concluded.*

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Crapo,	Washington and Rockland,	58	$37.93	New east side.
Coffin ave.,	Acushnet ave. and Church street,	60	42.90	New north side.
Durfee,	Shawmut ave. and Wilson street,	100	19.60	New gutter south side.
"	Mt. Pleasant st. and Shawmut ave.,	1,171	1062.05	New north side.
Dartmouth,	Cottage and Allen,	70	5.60	Repaired west side.
"	At Rockland,	25	5.35	Repaired broad gutter.
Elm,	Sixth and Eighth,	100	16.70	Repaired north side.
Eighth,	Union and Spring,	24	5.00	Repaired broad gutter.
Fourth,	Russell and Bedford,	87	53.95	New curbing west side.
"	Bedford and Wing,	50	7.63	Repaired east side.
Grinnell,	Dartmouth and Orchard,	102	74.80	New curbing south side.
"	Crapo and County,	44	5.00	Repaired south side.
Hillman,	Hill and Walden,	50	37.15	New curbing south side.
Hazard,	Purchase and County,	462	316.80	New curbing south side.
Kempton,	At Cottage,	24	20.86	New curbing, two corners.
"	Cottage and Cedar,	160	49.75	Repaired south side.
Locust,	County and Richmond,	885	654.40	New north side.
Linden,	Pleasant and State,	124	98.85	New north side.
"	County and Ashland,	130	27.75	Repaired south side.
Middle,	Purchase street and Acushnet ave.,	200	104.12	Repaired south side.
"	At Cottage,	44	29.28	New broad gutter.
"	Purchase street and Acushnet ave.,	200	26.80	Repaired north side.
Maxfield,	Purchase street and Acushnet ave.,	210	154.95	New curbing south side.
Merrimac,	Pleasant and State,	122	32.80	Repaired north side.
Mt. Pleasant,	At F. R. R. R.,	50	15.70	Repaired gutter.
Mosher,	County and Crapo,	300	38.47	Repaired north side.
Orchard,	Grinnell and Washington,	157	68.25	Repaired west side.
Pope,	Acushnet ave. east,	100	20.90	New gutter south side.

Parker,	Cedar street and Shawmut ave.,	445	336.55	New gutter north side.
Purchase,	William and Middle,	195	31.70	Repaired east side.
"	North and Hillman,	100	5.00	Repaired west side.
"	Austin and Linden,	16	11.75	New west side.
Pleasant,	Linden and Weld,	1,035	211.41	New gutter both sides.
"	Maxfield and Hillman,	150	33.88	Repaired east side.
Reed's lane,	Willis street north,	80	66.30	New east side.
Russell,	Acushnet ave. and Fifth street,	127	30.10	Repaired south side.
Rockland,	Hall and Bonney,	531	444.77	New north side.
Reed,	At Court,	30	6.00	Repaired north side.
Shawmut ave.,	Durfee and Austin,	121	34.30	Repaired east side.
"	At Parker,	24	18.15	New curbing two corners.
Sherman,	County and Bonney,	234	122.20	Repaired north side.
Spruce,	Maxfield and Sycamore,	272	192.18	New east side.
Sycamore,	Summer and County,	50	11.47	Repaired north side.
Sixth,	At Cherry,	24	20.13	New curbing two corners.
"	Russell and Cherry,	190	137.95	New curbing east side.
South,	Fourth and County,	12	9.77	New north side.
School,	Acushnet ave. and Second street,	55	7.55	Repaired north side.
Union,	Ash and Cottage,	350	111.72	Repaired north side.
"	Fifth and Sixth,	25	22.15	New south side.
"	Sixth and Seventh,	214	29.85	Repaired south side.
"	Seventh and Eighth,	92	16.65	Repaired north side.
William,	Purchase and Pleasant,	440	78.17	Repaired gutters both sides.
Willis,	Cottage and County,	604	455.10	New north side.
"	Cottage and Summer,	440	254.51	New south side.
Weld,	At Pleasant,	30	10.60	New broad gutter.
"	At Acushnet avenue,		9.00	Repaired gutter from pump.
		25,346	$9142.70	

TABLE No. 4.

Concrete Sidewalks Laid.

Streets.	Between what points.	Square Yards.	Cost.	Remarks.
Allen,	Cottage and Borden,	219.46	$109.75	South side.
"	West of County,	126.5	63.25	North side.
Acushnet ave.,	And School street,	176.62	114.80	East and north sides.
Ash,	North and Mill,	150	75.00	West side.
Bedford,	And Fifth,	13 1/3	6.67	South side.
Campbell,	Chestnut and Cottage,	174.3	87.15	North side.
Crapo,	North to Rockland, east to Hall,	192.2	96.10	East and south sides.
County,	And Linden,	175.7	131.78	West and south sides.
"	At Washington,	33 4/9	33.44	Crosswalk.
"	Washington and South,	205.7	102.88	West side.
"	At Arnold,	26 2/3	26.67	Crosswalk.
"	Rockland and South,	61 4/9	15.37	Repaired west side.
"	At Court,	24 1/9	24.11	Crosswalk.
"	Thompson and Rockland,	12	6.00	Repaired east side.
Cedar,	Robeson and Locust,	513	256.50	East side.
Court,	Ash and Union,	889.84	442.92	South side of Court, east side of Ash, and north side of Union.
Cottage,	Allen and Dartmouth,	384	192.00	West side.
"	Bedford and Allen,	37	18.50	West side.
Durfee,	Mt. Pleasant and Cedar,	386.3	193.15	North side.
Fourth,	Grinnell and South,	164.6	82.30	West side.
"	Bedford and Wing,	106.6	53.30	East side.
Grinnell,	Dartmouth and Orchard,	7	3.50	Repaired north side.
"	" "	189.2	94.60	South side.
"	And Acushnet ave.,	27	13.50	North side.

Hawthorn,	Near Page,	$30\frac{5}{9}$	15.28	Repaired north side.
Kempton,	Francis and Jenney,	864.1	432.05	South side.
"	Cottage and Cedar,	125.6	62.80	South side.
"	And Pleasant,	96	62.40	Southeast corner.
Linden,	Ashland and County,	482.5	241.25	North side.
Maxfield,	Purchase st. and Acushnet ave.,	193.06	96.53	South side.
Pleasant,	Elm and Middle,	$12\frac{1}{3}$	9.25	Repaired east side.
"	Hillman and Maxfield,	$45\frac{1}{3}$	22.66	Repaired west side.
Purchase,	Linden and Logan,	295	191.75	East side.
"	South of Linden,	81.1	52.72	East side.
"	" "		30.00	Repaired west side.
Potomska,	Second street and Acushnet ave.,	205	102.50	South side.
Russell,	And Fourth.	133.3	66.65	Southwest corner.
Second,	High and Middle,	$40\frac{5}{6}$	20.28	East side.
Sherman,	West of County,	197.78	98.89	North side.
Sixth,	And County,	99.72	49.86	North side of Wash. sq.
Shawmut ave.,	And Durfee,	31	15.50	East and north sides.
Willis,	And Reed's lane,	102.94	51.47	North and east sides.
"	Chestnut and Summer,	170.2	85.10	North side.
Water,	And Delano,	114.5	57.25	Northwest corner.
"	Griffin and Howland,	69.1	34.55	East side.
"	Howland and Grinnell,		11.00	Repaired east side.
"	William and Union,	$48\frac{8}{9}$	48.88	Four crosswalks.
	Sundry small repairs,		27.00	
		7734.59	$4128.86	

TABLE No. 5.

Cinder Sidewalks Laid.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Austin,	Purchase and County,	775	$15.60	Repaired south side.
"	Cedar street and Shawmut ave.,	900	83.35	North side.
Acushnet ave.,	Hicks and Washburn,	200	16.50	East side.
"	North of Coffin ave.,	800	39.53	West side.
"	Blackmer and Delano,	200	5.85	West side.
"	Rivet and Potomska,	140	5.10	East side.
Acorn,	Durfee street south,	150	7.80	West side.
Bonney,	Rockland and Allen,	750	37.70	East side.
Borden,	Bay and Dartmouth,	350	33.50	West side.
"	Dartmouth and Allen,	300	18.70	East side.
Bedford,	Borden and Ash,	250	13.90	South side.
Brownell,	Court and Union,	150	6.15	West side.
Chestnut,	Locust and Parker,	800	83.50	Both sides.
Cedar,	Durfee and Austin,	500	37.05	East side.
"	Austin and Robeson,	50	5.15	West side.
"	Campbell and Willis,	80	5.05	"
"	Hillman and North,	250	20.45	"
County,	Union and Arnold,	600	13.15	"
"	Weld and Clark,	350	17.25	East side.
Cedar Grove,	Bowditch and Rock,	450	21.00	North side.
Chancery,	Willis and Parker,	80	6.50	East side.
Cottage,	Parker and Campbell,	510	56.10	"
"	Elm and Middle,	160	15.00	West side.
Campbell,	Chestnut and Cottage,	150	9.30	North side.
	Cottage and Cedar,	200	17.65	South side.

Cherry,	Sixth and Seventh,	80	7.05	North side.
Clark,	County and Purchase,	180	9.60	"
Durfee,	Wilson and Cedar,	350	39.95	South side.
"	Shawmut and Rockdale aves.,	250	23.10	North side.
Delano,	Water and County,	450	36.23	South side.
Dartmouth,	Rockland and Washington,	350	17.45	East side.
Division,	County and Crapo,	300	13.00	South side.
French ave.,	Cove street and Middle road,	400	19.25	East side.
First,	Union and Spring,	130	6.55	West side.
Florence,	Kempton and Court,	600	18.25	East side.
Front,	Cedar Grove and Washburn,	120	6.00	Both sides.
Fourth,	Bedford and Wing,	300	10.45	West side.
Grinnell,	Dartmouth and Bonney,	100	6.30	South side.
Gammons lane	Linden court and Ash street,	300	29.95	North side.
Grove,	Ash and Cottage,	100	5.35	"
Hazard,	Purchase and Pleasant,	160	5.25	South side.
"	Purchase and County,	450	19.00	North side.
Locust,	County street and Shawmut ave,	600	43.60	"
Liberty,	Kempton street south,	400	44.20	East side.
"	" " "	300	31.85	West side.
Lindsey,	Kempton and Court,	300	24.45	East side.
"	" " "	100	9.30	West side.
Lombard,	Rockland street south,	150	22.10	East side.
Middle,	Chancery and Emerson,	110	10.20	South side.
Mosher,	County and Crapo,	500	34.75	North side.
Myrtle,	Linden and Clark,	600	39.00	Both sides.
Newton,	Kempton and Elm,	220	20.25	West side.
North,	Newton and Park,	100	5.40	North side.
Nelson,	County street west,	100	8.25	South side.
Pleasant,	Linden and Weld,	200	7.10	East side.
Park,	Union and Arnold,	100	7.00	West side.
Rockland,	Hall and Dartmouth,	700	59.13	South side.
Rivet,	Juniper and Crapo,	300	28.05	North side.
Richmond,	Locust and Parker,	200	11.60	East side.

Cinder Sidewalks Laid — *Concluded.*

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Russell,	Sixth and County,	380	$26.30	North side.
Robeson,	Cottage and Ashland,	160	10.15	South side.
Reynolds,	Linden and Weld,	100	5.30	East side.
Second,	Potomska and Rivet,	200	12.50	West side.
Shawmut ave.,	Durfee and Austin,	350	29.60	East side.
"	Topham and Sutton,	180	15.50	"
State,	Weld and Cedar Grove,	450	16.60	"
"	Penniman and Weld,	550	23.40	West side.
"	Merrimac and Franklin,	250	12.55	East side.
Thompson,	County and Crapo,	400	42.15	South side.
Tremont,	Arnold and Union,	80	5.65	West side.
Union,	Tremont and Park,	200	13.50	South side.
Willis,	Summer and County,	280	16.25	North side.
"	Cottage and Cedar,	200	13.40	South side.
Wilson,	Durfee and Austin,	90	5.65	West side.
Weld,	Cottage and State,	220	10.05	South side.
Ward,	Allen and Bay,	120	7.45	East side.
		22,955	$1535.79	

TABLE No. 6.

Paving, New and Old.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	William and Pearl,	3,450	$769.22	Repaired.
"	Russell and Bedford,	300	370.85	New.
"	At Spring street,	30	9.75	Repaired square.
Ash,	Union and Court,	60	39.20	New, east side of H. R. R. track.
Allen,	Green and Bonney,	196	28.20	Repaired.
Bedford,	Fourth and Fifth,	220	155.21	New outside of H. R. R. track.
Commercial,	Water and Front,	200	47.95	Repaired.
Cedar,	At Hillman,	30	13.53	Repaired square.
"	Kempton and Swamp,	150	132.38	New.
Front,	Middle and School,	1,800	1263.17	Repaired.
Fourth,	Bedford and Russell,	313	138.85	New west of H. R. R. track.
First,	Spring and School,	120	20.55	Repaired.
Hillman,	Water and Second,	200	26.05	"
Kempton,	Cedar and Cottage,	250	39.00	"
Purchase,	Union and Merrimac,	3,800	418.45	"
Second,	School and Union,	400	73.48	"
"	Howland and Grinnell,	30	9.43	"
"	At Walnut,	30	27.80	Repaired square.
Sixth,	Union and Market.	150	32.55	Repaired.
Union,	Seventh and Eighth,	278	1460.83	New granite blocks.
"	Water and Front,	230	37.30	Repaired.
Water,	Union and Grinnell,	1,600	210.06	"
	Sundry small repairs,		50.75	
		13,837	$5374.56	

TABLE No. 7.

Flagging, New and Old.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	Weld and Cedar Grove,	200	$43.05	Repaired west side.
"	Pearl and Seneca,	62	13.32	Repaired east side.
"	Nash road and Davis street,	312	15.39	" "
"	Grinnell and Wing,	110	5.05	Repaired west side.
Arnold,	Orchard and County,	118	245.20	New south side.
Bedford,	Fourth and Fifth,	156	13.00	Repaired both sides.
Crapo,	Rockland and Washington,	130	21.25	Repaired east side.
County,	Elm and Morgan,	150	26.15	Repaired west side.
"	Locust and Parker,	100	7.00	" "
"	Hillman and North,	100	13.65	Repaired east side.
Campbell,	Cedar street and Shawmut ave.,	90	11.70	Repaired north side.
Cottage,	Court and Arnold,	167	271.30	New east side.
"	Mill and North,	150	20.05	Repaired west side.
Dartmouth,	Allen and Cottage,	50	6.00	" "
Elm,	Sixth and Eighth,	214	13.67	Repaired north side.
Fifth,	Madison and Walnut,	180	46.07	Repaired west side.
Hillman,	Pleasant and Foster,	110	9.80	Repaired south side.
"	State and Thomas,	50	20.55	" "
Linden,	Pleasant and Purchase,	100	29.45	Repaired north side.
Middle,	Foster and County,	400	104.75	" "
"	Purchase street and Acushnet ave.,	160	66.33	Repaired south side.
Maxfield,	Foster and Pleasant,	120	14.25	" "
Merrimac,	Pleasant and State,	106	44.90	Repaired north side.
Morgan,	Cedar and Cottage,	162	151.73	New south side.
North,	Purchase and Pleasant,	90	12.25	Repaired north side.
Orchard,	Arnold and Clinton,	65	120.27	New east side.

Purchase,	William and Middle,	85	21.70	Repaired east side.
"	North and Hillman,	100	5.00	Repaired west side.
Pleasant,	Sycamore and Campbell,	300	23.50	Repaired east side.
"	Maxfield and Hillman,	150	94.23	" "
"	Pope and Franklin,	50	11.37	Repaired west side.
"	William and Union,	200	18.75	Repaired east side.
Pope,	Purchase and Pleasant,	15	5.00	Repaired north side.
Russell,	Sixth and County,	273	64.97	Repaired south side.
Second,	Union and William,	57	18.36	Repaired east side.
"	Middle and Elm,	100	40.18	Repaired west side.
"	Spring and Union,	50	5.75	Repaired east side.
Sixth,	Madison and Walnut,	155	20.87	Repaired west side.
"	Cherry and Russell,	25	9.42	" "
"	Park place and Union street,	60	12.05	" "
"	Russell and Cherry,	163	20.50	Repaired east side.
Sycamore,	State and Thomas,	130	19.30	Repaired north side.
South,	Fourth and County,	40	39.30	" "
Summer,	Sycamore and Maxfield,	95	16.70	Repaired west side.
School,	Water and Front,	100	7.63	Repaired south side.
"	At Second,	20	10.50	" "
Thomas,	North of Sycamore,	40	11.60	Repaired west side.
Union,	Water and Front,	80	19.62	Repaired south side.
"	Fifth and Eighth,	370	92.01	" "
William,	Sixth and Eighth,	250	17.10	Repaired north side.
"	Purchase street and Acushnet ave.,	85	18.50	" "
Water,	Rivet and Delano,	108	9.25	Repaired west side.
"	Morgan's lane and Cannon street,	70	8.05	" "
Willis,	State and Pleasant,	140	21.10	Repaired north side.
Weld,	Purchase and Bowditch,	25	9.55	" "
	Sundry small repairs,		337.71	
		6988	$2355.70	

TABLE No. 8.

Crosswalks, New and Old.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Acushnet ave.,	Coffin ave. and Nash road,	24	$19.80	New driveway east side.
"	At Pearl,	22	7.45	Repaired east side.
"	At Wamsutta,	22	5.28	" "
"	Nash road and Coffin ave.,	26	6.00	Repaired west side.
"	At William,	44	5.15	" "
Allen,	At Cottage,	22	18.95	New south side.
"	"	22	13.20	Repaired north side.
Arnold,	At Tremont,	25	20.70	New south side.
Bethel,	William and Union,	24	20.71	New driveway west side.
Bedford,	Fourth and Fifth,	75	5.10	Repaired driveway south side.
Cottage,	At Bedford,	32	29.83	New west side.
"	"	30	6.25	Repaired east side.
"	Union and Court,	44	43.25	Two new driveways east side.
"	Dartmouth and Allen,	20	5.00	Repaired driveway west side.
"	Mill and North,	30	6.00	Repaired driveway east side.
County,	At Locust,	44	33.13	New west side.
"	Washington and South,	22	19.28	New driveway east side.
"	At Washington,	32	7.45	Repaired east side.
Court,	Cottage and Ash,	24	19.50	New driveway north side.
"	" "	28	24.05	New driveway south side.
"	Cedar and Cottage,	28	27.53	" "
Crapo,	At Rockland,	44	36.45	New east side.
Cedar,	At Hillman,	22	20.55	New west side.
Durfee,	Cedar and Ashland,	25	22.60	New driveway north side.
Dartmouth,	At Rockland,	20	18.82	New west side.
Elm,	County and Summer,	22	19.65	New driveway south side.

Emerson,	At Kempton,	23	19.37	New west side.
Fourth,	At Washington,	24	19.92	" "
"	At Bedford,	22	5.00	Repaired west side.
Front,	At Rodman,	35	5.20	" "
"	Union and School,	104	11.90	Repaired east side.
"	Union and Center,	25	22.45	New driveway west side.
First,	At Spring,	88	9.75	Repaired both sides.
Grinnell,	County and Crapo,	22	20.25	New south side.
Hawthorn,	Orchard and Cottage,	20	17.13	" "
"	At Cottage,	48	40.45	New north side.
"	Ash and Tremont,	30	27.78	" "
Hillman,	At Cedar,	22	16.65	" "
"	Hill and Walden,	36	5.90	Repaired south side.
High,	At Acushnet ave.,	22	17.10	New north side.
Kempton,	Cottage and Cedar,	22	19.38	New driveway north side.
"	" "	20	18.13	New driveway south side.
"	At Cottage,	44	40.60	New south side.
Linden,	At Pleasant,	48	42.05	New north side.
Locust,	Richmond and Cedar,	16	11.75	New driveway north side.
Middle,	At Front,	38	5.10	Repaired south side.
"	Purchase street and Acushnet ave.,	18	5.00	Repaired driveway south side.
"	At Purchase,	44	8.00	Repaired both sides.
Merrimac,	Pleasant and State,	12	6.80	Repaired driveway north side.
Maxfield,	At Acushnet ave.,	44	8.84	Repaired both sides.
Pleasant,	At Mechanics lane,	28	15.26	Repaired with large paving blocks.
"	At Elm,	28	15.26	" "
"	At Middle,	28	15.26	" "
"	At High,	28	15.26	" "
"	At Weld,	39	15.93	" "
Purchase,	At Middle,	25	23.68	New east side.
"	Pearl and Willis,	42	33.51	New driveway west side.
"	Linden and Austin,	21	17.60	" "
"	At Willis,	23	5.00	Repaired west side.
Russell,	At Fourth,	22	6.75	Repaired south side.
Second,	Union and William,	20	7.41	Repaired driveway east side.

Crosswalks New and Old — *Concluded.*

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Second,	At Walnut,	44	$11.13	Repaired both sides.
"	Union and Spring,	20	5.05	Repaired driveway west side.
Spring,	Fifth and Sixth,	21	19.82	New driveway north side.
"	At Second,	18	15.95	" "
Sixth,	Madison and Walnut,	20	5.08	Repaired driveway east side.
"	At Cherry,	52	35.95	New west side.
Spruce,	Sycamore and Maxfield,	30	24.28	New driveway east side.
School,	Acushnet ave. and Second street,	23	22.16	New driveway north side.
Summer,	Smith and Sycamore,	12	5.23	New driveway paved east side.
South,	At Acushnet ave.,	44	5.30	Repaired north side.
"	Fourth and County,	12	5.08	New driveway paved north side.
Union,	Ash and Arch,	48	38.00	Two new driveways north side.
Water,	At School,	22	6.25	Repaired west side.
"	Elm and Middle,	24	8.75	Repaired driveway west side.
Willis,	Cottage and Cedar,	26	21.80	New driveway south side.
"	At Purchase,	22	15.38	Repaired north side.
"	State and Pleasant,	24	19.93	New driveway south side.
Weld,	Purchase and Bowditch,	68	52.18	Two new driveways north side.
William,	At Acushnet ave.,	44	13.87	Repaired both sides.
"	At Pleasant,	88	21.56	" "
		2566	$1389.85	

TABLE No. 9.

Fences Built.

Streets.	Between what points.	Cost.	Remarks.
Cove road,	Crapo street west,	$56.00	North side.
Rock,	Sawyer street and Belleville road,	225.18	West side.
Sawyer,	Acushnet ave. and Bowditch street,	105.25	South side.
		$386.43	

MISCELLANEOUS.

Sundry bills for repairs, and supplies furnished the department, and not otherwise accounted for,	$19,370.38
Moving horse railroad track, from center to east side of Acushnet avenue, from Weld street to Nash road,	5,388.28
Trimming trees,	302.59
Removing snow and ice,	28.71
Cleaning streets,	2,214.49
Sanding sidewalks,	117.80
Repairs on steam road roller, crushers, and boilers,	1,268.98
Sundry small repairs, picking up stones, carting stock to lot, &c.,	1,957.88
Superintendent's salary,	1,200.00
Assistant superintendent's salary,	800.00
Hostler's salary,	780.00
	$33,429.11

RECAPITULATION.

Macadam, new and old,	$22,636.76
Streets graveled and graded,	23,515.90
Curbing and gutters,	9,142.70
Concrete sidewalks laid,	4,128.86
Cinder sidewalks,	1,535.79
Paving, new and old,	5,374.56
Flagging, new and old,	2,355.70
Crosswalks, new and old,	1,389.85
Fences built,	386.43
Miscellaneous,	33,429.11
	$103,895.66

CREDITS.

Appropriations,	$77,000.00
Special appropriation,	5,500.00
Received from sale of old city stable lot and buildings,	11,646.79
Received for stock, labor, and teaming,	13,142.70
	$107,289.49
Expended,	103,895.66
Transfer to balance,	$3,393.83

INVENTORY OF PROPERTY

BELONGING TO NEW BEDFORD STREET DEPARTMENT.

24 horses,	$3,505.00
7 double carts,	1,350.00
7 single carts,	840.00
2 double gears (one with derrick),	375.00
1 single gear,	80.00
1 lumber wagon,	65.00
1 express wagon,	70.00
2 light wagons,	180.00
9 double harnesses,	375.00
9 single harnesses,	150.00
4 lead harnesses,	55.00
1 light double harness,	48.00
3 light single harnesses,	45.00
7 horse collars,	10.00
5 steel horse collars,	25.00
16 feed baskets,	10.00
6 stable pails,	5.00
7 tons hay,	140.00
3 tons straw,	45.00
75 bushels grain,	50.00
5 carriage robes,	25.00
24 horse blankets,	25.00
9 six tined forks,	9.00
5 hay forks,	2.00
1 hay knife,	1.00
3 wheel jacks,	4.00
25 hitching halters,	9.00
7 wagon wrenches,	5.00
7 monkey wrenches,	7.00
20 flat wrenches,	8.00
1 sleigh,	30.00
2 large ash sleds,	250.00
1 harrow,	50.00
2 stone drags,	6.00
2 plows,	15.00
11 plow points,	9.00
1 two-horse dirt scoop,	10.00
1 road scraper,	195.00
1 street sweeper,	375.00
1 watering cart,	425.00
50 lbs. black wheel grease,	5.00

1 iron road roller,	$380.00
1 stone road roller,	125.00
1 steam road roller,	5,400.00
2 sets Fairbank's platform scales,	300.00
2 stone crushers,	1,525.00
2 portable boilers and engines,	1,100.00
1 hydraulic jack,	60.00
3 jack screws,	12.00
1 large key wrench,	4.00
1 socket wrench,	2.00
4 small wrenches,	5.00
1 copper hammer,	1.00
4 water casks,	20.00
4 water tubs,	12.00
3 iron vises,	9.00
8 oil feeders,	3.00
9 oil squirters,	4.00
1 large ladle for lead,	1.00
2 pairs tongs for stone crushers,	5.00
2 belt punches,	1.00
1 pair pipe tongs,	2.00
10 cold chisels,	3.00
2 key sets,	1.00
10 lbs. Babbitt metal,	3.00
Crusher castings,	175.00
75 feet 1-inch suction hose,	20.00
150 feet garden hose,	6.00
10 lbs. machine grease,	1.00
1 derrick with wheels,	30.00
4 tool houses,	130.00
6 tool boxes (one on wheels),	30.00
22 sledges,	66.00
71 iron bars,	142.00
5 small stone hammers,	4.50
14 stone breaking hammers,	7.00
4 striking hammers,	12.00
7 drilling hammers,	13.00
5 blowing drills,	6.00
87 small drills,	30.00
2 blasting spoons,	1.00
20 lbs. backing and wedges,	5.00
25 stone chisels,	9.00
8 stone sets,	5.00
26 stone points,	12.00
5 spirit levels,	5.00
4 iron squares,	3.00

12 stone chains,	$2.00
1 shackle bar,	2.00
15 stone tubs,	12.00
3 trowels,	1.50
15 paving hammers,	20.00
12 paving pounders,	35.00
13 new paving brooms,	12.00
130 old long handled shovels,	25.00
37 old short handled shovels,	12.00
11 new short handled shovels,	9.50
10 long handled scoop shovels,	6.00
14 short handled scoop shovels,	8.00
37 old hoes,	4.00
114 old pick axes,	125.00
16 mattocks,	15.00
3 bill hooks,	2.00
4 scythes,	5.00
1 sickle,	.50
15 iron rakes,	5.00
16 dirt pounders,	8.50
6 flagging tampers,	7.00
2 pinch bars,	2.00
6 large cross-cut saws,	25.00
4 hand saws,	2.00
17 narrow axes,	12.00
4 hatchets,	2.00
3 planes,	2.00
3 rasps,	.50
2 augers,	1.00
8 bitstocks and 12 bits,	10.00
2 screw drivers,	.50
5 chisels,	2.00
1 drawing knife,	.50
4 small hammers,	2.00
1 mop,	1.00
1 three cornered scraper,	.50
4 steel wedges,	4.00
12 wooden wheelbarrows,	15.00
14 iron wheelbarrows,	75.00
4 tin tunnels,	.50
6 large oil cans,	3.00
8 small oil cans,	4.00
20 lanterns,	16.00
30 red lantern globes,	22.00
14 street horses,	15.00
6 water pails,	1.00

5 ladders,	$12.00
6 sets blocks and falls,	35.00
2 snow plows,	24.00
63 snow shovels,	24.00
9 ice spades,	4.00
3 sand screens,	15.00
2000 bushels sand for sidewalks,	100.00
5 stoves and pipe,	75.00
50 lbs. nails,	1.65
4 blocks cast iron,	3.00
13 bound stones,	9.00
2500 feet old flag stones,	425.00
138 feet curbing corners,	69.00
1250 large block paving,	400.00
10 tons cobble paving,	12.50
6 tons gravel,	4.80
1 pair rubber boots,	2.00
150 feet linen hose,	30.00
	$20,359.95

TABLE No. 10.

General Sewers.

Sewers Built.

Streets.	Between what points.	Length. Feet.	Cost.	Remarks.
Atlantic,	Union street south,	485	$518.66	10-inch vitrified pipe.
Court, No. 2,	Florence street west,	453	906.93	12-inch vitrified pipe.
Collins,	Cedar street east,	312	210.15	" " "
Elm,	Florence street west,	252	257.57	10-inch vitrified pipe.
Griffin,	Water street west,	485	939.01	" " "
Hickory and Ward,	Dartmouth and Allen,	836	3,081.45	15-inch vitrified pipe; cost inc. by ledge work.
Hall,	Thompson street north,	271	236.53	10-inch vitrified pipe.
Locust,	Cedar street and Shawmut ave.,	611	1,114.24	15-inch vitrified pipe.
Mt. Pleasant,	Durfee street north,	348	390.77	12-inch vitrified pipe.
Orchard,	From the Cove north,	707	7,149.08	Two courses of brick, 48 inches in diameter, 58 feet at south end is of iron pipe.
Oak and Grape,	Dartmouth street west,		38.93	Built last year.
Pearl and Willis,	Extension O. C. R. R. track east,	1,297	12,125.24	668 ft. 48-in. cast iron pipe, 629 ft. 24-in. cast iron pipe.
Rivet, No. 1,	Crapo and Fourth,	987	1,361.86	15-inch vitrified pipe.
Rivet, No. 2,	Bonney street west,	830	2,442.43	18-inch vitrified pipe, cost inc. by ledge work.
Richmond,	Parker street north,	392	533.01	12-inch vitrified pipe.
Sherman,	County street west,	599	1,824.07	10-inch vitrified pipe, cost inc. by ledge work.
South Second,	Howland and Grinnell,	534	798.12	12-inch vitrified pipe.
South Water,	Madison street north,	165	217.09	" " "
Union, No. 3,	Park and Ash,	726	1,197.84	15-inch vitrified pipe.
West Maxfield,	Park and Cedar,	975	1,949.68	" " "
		11,265	$37,292.66	

TABLE No. 11.

General Sewers — *Continued.*

Sand-Catchers Built.

Streets.	Location.	Cost.	Remarks.
Acushnet ave.,	West side, north of Coggeshall street,	$156.02	Cost increased by use of 24 ft. 8-in. iron pipe under H. R. R. track.
Kempton,	South side, west of Liberty,	147.46	
		$303.48	

TABLE No. 12.

GENERAL SEWERS — *Continued.*

Sand-Catchers, Sewers, and Surface Drains Cleaned and Repaired.

Description and Location of Work Done.	Cost.
Repaired sewer, foot of Middle street; cleared surface drain, Penniman street, west of County; repaired culvert, Chestnut street; repaired culverts, French ave.; repaired man-holes in Elm street; repaired sand-catcher, Logan street; repaired sand-catcher, School street; repaired sand-catcher, Acushnet ave., at Campbell street; repaired man-hole, Walnut and County streets; repaired sand-catcher, County and William; repaired sewer, foot of High street; repaired sand-catcher, Acushnet ave. and Bedford street; repaired sand-catcher, Logan street and Acushnet ave.; carting pipe to lot; repaired sand-catcher, Linden and County streets; repaired surface drain, Robeson, near Cedar street; repaired man-hole, Bonney street; repaired Bonney street sewer; bank wall built at the end on Bonney street sewer; repaired man-hole, County and Middle streets; repaired eye-hole, County and Linden streets; repaired surface drain, Logan street and Acushnet ave.; repaired eye-hole, Water and Cove streets; repaired eye-hole, Blackmer and First streets; repaired sewer foot of Coffin street; repaired eye-hole, Acushnet ave., near Sawyer street; repaired culvert, James street; repaired sand-catcher, Fourth and Bedford streets; repaired sand-catcher, Rockland and Crapo streets; repaired sand-catcher, Fourth and Rockland streets; new surface drain, Chestnut street, north of Parker; repaired culvert, Purchase street, near County; filling Howland street dock; Grinnell street sewer taken up and laid deeper between Bonney and Orchard streets; repaired sand-catcher, North and Purchase streets; repaired sand-catcher, Penniman and Purchase streets; repaired surface drain, West Maxfield street; repaired sewer, Park and Campbell streets; new surface drain, Acushnet ave., north of Lund's corner; new surface drain in Richmond street; new surface drain, Purchase street, foot of Clark; repaired eye-hole, First street, between South and Potomska; repaired eye-hole, Acushnet ave., west side, north of Nash road; repaired sand-catcher, Cedar street, between Kempton and Middle; repaired sewer, Middle street, east of Front; repaired Hart and Akin's wharf and dredged dock; extended Cedar Grove street sewer seventy-five feet east; Durfee street sewer taken up and put deeper, from Mt. Pleasant street west one hundred seventeen feet,	$20,389.56
Cleaning sand-catchers,	1,057.80
Stock on hand,	1,348.08
	$22,795.44

RECAPITULATION.

Sewers built,	$37,292.66
General repairs,	20,389.56
Sand-catchers cleaned,	1,057.80
Stock on hand,	1,348.08
Sand-catchers built,	303.48
	$60,391.58

INVENTORY OF PROPERTY

BELONGING TO NEW BEDFORD SEWER DEPARTMENT.

2 large tool houses on wheels,	$360.00
8 mortar boxes,	8.00
1 derrick,	15.00
2 sets blocks and falls,	15.00
7 lanterns,	5.50
7 oil cans,	5.00
3 large pumps with suction hose,	180.00
19 diaphragms for pumps,	43.00
400 feet large hose,	48.00
7 sledges,	21.00
6 striking hammers,	18.00
4 drilling hammers,	8.00
30 blowing drills,	30.00
50 small drills,	20.00
20 lbs. backing and wedges,	6.00
5 blasting spoons,	2.50
150 feet fuse,	1.50
2 small chains,	1.50
7 stone chains,	8.00
7 chains with ropes,	3.50
13 iron bars,	26.00
11 iron wedges,	6.00
20 stone chisels,	5.50
7 stone points,	2.50
8 large stone points,	4.00
74 old long handled shovels,	13.00
43 old short handled shovels,	8.00
4 old hoes,	.50
86 pick axes,	100.00
2 mattocks,	1.50
2 trowels,	1.00

2 monkey wrenches,	$1.00
2 dirt pounders,	1.00
4 axes,	3.50
1 hatchet,	.50
1 bitstock and bit,	1.00
1 hand saw,	1.00
19 wooden wheelbarrows,	28.00
8 iron wheelbarrows,	65.00
10 old wooden pails,	1.00
2 water pails and dippers,	1.00
2 oil squirters,	1.00
1 ball spun yarn,	.50
60 lbs. nails,	2.20
37 arches and forms,	125.00
4000 feet old spruce plank,	32.00
50 feet oak plank, sand-catcher covers,	4.00
3 granite scuttle stones,	105.00
6 eye-hole grates,	42.00
3 throat stones,	30.00
3 pair pipe tongs,	6.00
6 wooden dippers,	1.00
1 piece canvas,	15.00
2 levels,	2.00
4 iron pails,	3.00
1 claw hammer,	.50
3 top mauls,	5.00
10 feet 5-inch vitrified pipe,	2.00
74 feet 6-inch "	18.50
276 feet 10-inch "	89.70
70 feet 12-inch "	29.75
1448 feet 15-inch "	905.00
78 feet 18-inch "	66.30
20 feet 20-inch "	22.50
18 10-inch Y's,	26.37
1 18-inch Y,	3.83
2 8-inch bends,	3.00
1 12-inch bend,	1.75
1 15-inch bend,	2.38
	$2615.78

NEW BEDFORD AND FAIRHAVEN BRIDGE.

John B. Nicholson, draw-tender, salary,	$600.00
Greene & Wood, lumber,	88.35
David Duff & Son, coal and paving stones,	28.00
James Duddy, teaming,	20.75
Jethro Hillman, stock and labor,	446.64
George S. Bowen & Son, brooms and brushes,	5.40
New Bedford Street Department, stock, labor, and teaming,	113.25
William A. Tillinghast, lumber,	159.15
P. P. Jenney & Son, repairing tools,	.82
F. C. Luce, iron work,	3.25
E. B. Macy, iron work,	11.21
Perkins & Chase, gravel,	29.20
J. D. Driggs, iron work,	16.28
S. A. Tripp, fitting pipe,	.85
Sturtevant & Parker, stock and labor,	12.26
Smith & Gurney, iron work,	12.94
J. H. Sherman, stove and pipe,	10.96
Abraham Chase, labor,	12.00
Luther Russell, salt,	1.60
	$1572.91

CREDITS.

Appropriation,	$1000.00
Special appropriation,	500.00
Transfer to balance,	72.91
	$1572.91

IN BOARD OF ALDERMEN,
March 28, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

IN COMMON COUNCIL,
March 28, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

1889—City Document No. 11.

REPORT

OF THE

BOARD

OF

OVERSEERS OF THE POOR

OF THE

City of New Bedford,

FOR THE YEAR OF 1888.

NEW BEDFORD:
Mercury Publishing Company, Printers to the City.
1889.

In Board of Aldermen,
January 31, 1889.

Received and ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,
City Clerk.

In Common Council,
January 31, 1889.

Concurred.

WM. A. MACKIE,
Clerk.

1888.

MEMBERS OF THE BOARD.

CHARLES B. H. FESSENDEN.
GEORGE S. HOMER.
JONATHAN HOWLAND, Jr.

OFFICERS OF THE BOARD.

C. B. H. FESSENDEN,
Chairman and Secretary.

ELLA F. BUCKLYN,
Clerk.

CHAS. A. B. PETERSON,
Physician to the Board.

PELEG S. MACY,
Superintendent of the Almshouse.

REV. GEORGE T. FLANDERS,
Chaplain at the Almshouse,

SAMUEL DAMMON,
Superintendent of the Wood and Coal Yard.

REPORT.

To His Honor the Mayor and the City Council of New Bedford:

The Board of Overseers of the Poor, in submitting their second annual Report, ask at the outset a careful consideration of the following: The financial statement for 1888; the exhibits in detail of expenditures for outdoor relief and at the almshouse; and the various items of statistical information furnished.

FINANCIAL STATEMENT, 1888.

DR.

To amount of annual appropriation,		$33,000.00
Received from State, for support of paupers,		2,486.23
Received from cities and towns, for support of paupers,		3,287.72
For board of soldiers,		135.60
For board of lunatics,		804.28
Miscellaneous,		80.50
City almshouse credits:		
Amount from fire department,	$624.95	
Sale of produce,	593.28	
Truant school,	1482.51	
Street department,	135.70	2,836.44
		$42,630.77

CR.

By amounts expended as per monthly audits, as follows:

MONTHS.	Outside Relief.	Lunatics and State Reform.	Cities and Towns.	Almshouse.	TOTALS.
January,	$1,610.14	$1986.47	$272.02	$1,122.17	$4,990.80
February,	1,623.33	25.57	28.55	940.77	2,618.22
March,	1,606.92		280.81	829.27	2,717.00
April,	1,865.61	2246.67	129.15	816.45	5,057.88
May,	1,451.61		162.57	737.21	2,351.39
June,	1,985.30		23.05	1,059.25	3,067.60
July,	1,184.64	2138.55	389.58	884.96	4,597.73
August,	1,293.16			808.08	2,101.24
September,	1,355.82		143.86	880.97	2,380.65
October,	1,289.67	2030.75	105.31	1,386.66	4,812.39
November,	1,575.28		10.00	826.68	2,411.96
December,	1,944.74		74.36	1,417.59	3,436.69
Totals,	$18,786.22	$8428.01	$1619.26	$11,710.06	$40,543.55

Balance to credit, $2087.22.

EXPENDITURES IN DETAIL FOR OUTSIDE RELIEF IN 1888.

MONTHLY AUDITS.	Groceries.	Lunatic Hospitals, &c.	Cities and Towns.	Cash Orders.	Salaries and Travel.	Physician and Medicine.	Stationery and Printing.	Burials.	Boots and Clothing.	Transportation.	Horse hire, &c.	Office Expenses.	Rents.	Board Outside.	Wood and Coal Yard.	Miscellaneous.	Totals.
January,	$744.50	$1986.47	$272.02	$189.00	$125.01	$135.00	$3.33	$109.00				$3.10		$55.50	$237.70	$8.00	$3,868.63
February,	963.00	25.57	28.55	133.00	128.43	135.00	6.25	45.00	$4.80	$21.35				1.00	185.50		1,677.45
March,	997.17		280.81	130.00	125.86	135.00	3.12	118.00		10.32			$27.00	27.00	32.10	1.35	1,887.73
April,	880.00	2246.67	129.15	157.00	127.84	135.00	6.10	118.00	16.12	68.00	$2.50				353.80	1.25	4,241.43
May,	864.00		162.57	134.00	125.26	135.00	1.40	90.00		14.99				36.00	50.40	.56	1,614.18
June,	638.00		23.05	125.00	126.20	137.50	6.00	65.00	12.75	2.29		4.74	20.00		847.82		2,008.35
July,	577.50	2138.55	389.58	131.00	125.00	135.00	1.25	28.00		135.00		16.00	9.50		26.00	.39	3,712.77
August,	696.50			129.50	125.01	135.00	9.50	98.00	18.25	11.95			18.00		51.20	.25	1,293.16
September,	756.50		143.86	113.00	124.99	135.00		81.00	3.33	38.40			27.00	22.50	49.10	5.00	1,499.68
October,	609.50	2030.75	105.31	141.00	128.78	135.00	10.50	53.00	1.50	96.79				45.00	68.60		3,425.73
November,	730.50		10.00	150.00	126.64	135.00	1.40	130.00	6.65	2.72			20.00		272.37		1,585.28
December,	1083.75		74.36	135.50	425.01	135.00	4.08	40.00	1.50	2.00		.75		29.75	79.40	8.00	2,019.10
Totals,	$9540.92	$8428.01	$1619.26	$1668.00	$1814.03	$1622.50	$52.93	$975.00	$64.90	$403.81	$2.50	$24.59	$121.50	$216.75	$2253.99	$24.80	$28,833.49

DETAILED EXPENDITURE AT THE ALMSHOUSE, 1888.

MONTHS.	Flour and Grain.	Dry Goods and Clothing.	Beef.	Groceries, &c.	Shoes, Hats, and Leather.	Furniture and Crockery.	Hardware.	Fuel.	Repairs on Premises.	Carriages and Repairing.	Supt., Labor, and Nursing.	Medicines, &c.	Oils, Paints, etc.	Miscellaneous.	Totals.
January,	$137.94	$12.06	$98.56	$198.35	$17.05	$36.98	$.95	$100.58	$142.31	$3.51	$321.36		$7.30	$45.22	$1,122.17
February,	140.82	16.86	88.24	154.91			2.67	217.66	1.91		317.70				940.77
March,	131.03	23.86	69.02	113.04	.50	20.53	65.05	11.51	5.09	27.60	321.26	$21.93	7.25	11.50	829.27
April,	132.36	27.93	94.53	150.28	2.60		21.05	48.31	15.39		319.50			4.50	816.45
May,	153.27	18.25	80.03	102.77	2.75		6.09		8.35	43.04	306.36			16.30	737.21
June,	89.51	6.50	88.44	210.03	9.40	4.15	100.08	38.76	87.02	34.24	316.52	39.15	7.95	27.50	1,059.25
July,	118.73	10.44	88.29	185.94	18.55		11.01	9.50	11.40	15.86	401.74			13.50	884.96
August,	190.04	4.00	83.46	121.69	2.00	1.00	26.23	25.05	13.25		321.36			20.00	808.08
September,	145.29	53.41	105.21	165.41	1.35	14.31			13.25	31.12	319.50	15.27	4.25	12.60	880.97
October,	186.11	4.12	84.94	186.30	5.90		9.54	403.64	20.72		331.31			154.08	1,386.66
November,	194.96	23.61	105.03	128.41	4.00	1.75	33.77		3.01	11.62	313.43		7.09		826.68
December,	136.35	87.41	94.03	189.23	25.29	12.27	42.18		117.27	40.37	321.38	27.31	2.75	321.75	1,417.59
Totals,	$1756.41	$288.45	$1079.78	$1906.36	$89.39	$90.99	$318.62	$855.01	$438.97	$207.36	$3911.52	$103.66	$36.59	$626.95	$11,710.06

STATISTICS OF OUTSIDE RELIEF.

Gross cost of aid to persons outside of almshouse, 1888,	$28,833.49
Receipts from various sources,	6,794.33
	$22,039.16
Amount paid for support of persons in State lunatic hospitals and reformatories, and in other cities and towns, chargeable to this city,	10,047.27
Leaving as net expenditure in aid of poor residing here, including State paupers and those chargeable to other cities and towns,	$11,991.89
Number of families aided in 1888,	595
Number of families settlement here,	334
Number of families settlement elsewhere,	91
Number of families State paupers,	170
Number of persons aided,	1501
Number of persons settlement here, males, 261; females, 466	
Number of persons settlement elsewhere, males, 109; females, 163	
Number of persons State paupers, males, 219; females, 283	
Average cost of aid to each family, yearly,	$21.83
Average cost of aid to each person, yearly,	$7.98

TRANSPORTATION.

Number of families sent to their homes,	22
Number of persons sent to their homes,	33
Number of persons sent to Tewksbury almshouse,	11

BURIALS.

Males, 49; females, 46;	95

INSANE.

Number of insane at asylums during the year: Males, 32; females, 30;	62
Remaining at city's expense, Dec. 31, 1888,	53

STATE REFORM SCHOOLS.

Number supported during the year (all males),	5

PAUPERS AIDED ELSEWHERE,

But having settlement here (exclusive of lunatics and inmates of State reformatories),	families, 34; persons, 80
Amount paid for their support in 1888,	$1619.26

ALMSHOUSE REGISTER, 1888.

Months.	Admitted.	Discharged.	Remaining.
January,	7	6	63
February,	1	2	62
March,	6	5	63
April,	6	6	63
May,	7	12	58
June,	2	5	55
July,	10	2	63
August,	11	6	68
September,	5	7	66
October,	5	7	64
November,	10	9	65
December,	5	4	66

Whole number admitted during the year,	137
Whole number discharged during the year,	71
Remaining, December 31, 1888,	66
Average daily number,	62
Number of deaths during the year, males, 8; females, 5;	13
Number sent to Tewksbury from almshouse,	2

WORKHOUSE REGISTER, 1888.

Whole number remaining, December 31, 1887, 11.

Months.	Admitted.	Discharged.	Remaining.
January,	1	3	9
February,	1		10
March,	1	4	7
April,	2	1	8
May,	8	2	14
June,	3		17
July,	7	3	21
August,	7	4	24
September,	1	3	22
October,	4	6	20
November,	6	8	18
December,	3	4	17

Whole number during the year,	55
Discharged during the year,	38
Remaining, December 31, 1888,	17
Average daily number during the year,	18

TRUANT SCHOOL REGISTER, 1888.

Whole number December 31, 1887, 11.

Months.	Admitted.	Discharged.	Remaining.
January,	1	1	11
February,	1	1	11
March,	1		12
April,	4	1	15
May,	1		16
June,		2	14
July,			14
August,			14
September,		2	12
October,	2	1	13
November,			13
December,			13

Whole number admitted during the year,	21
Whole number discharged during the year,	8
Remaining, December 31, 1888,	13
Average daily number for the year,	13

FARM PRODUCTS IN 1888.

Hay,	85 tons.
Straw,	11 "
Oats,	150 bushels.
Barley,	185 "
Potatoes,	400 "
Onions,	30 "
Dried beans,	4 "
String beans,	5 "
Pease,	16 "
Beets,	8265 pounds.
Carrots,	7714 "
Turnips,	9856 "
Pumpkins,	1600 "
Squashes,	1800 "
Pork,	7775 "
Beef,	507 "
Veal,	3000 "
Sweet corn,	394 dozen ears.
Cabbage,	475 heads.
Milk,	26,995 quarts.

ALMSHOUSE CREDITS, 1888.

From fire department,	$624.95
Sale of produce,	593.28
Truant school,	1482.51
Street department,	135.70
	$2836.44

SUMMARY.

Gross expenditure for the year,	$11,710.06
Credits,	2,836.44
	$8,873.62
Average yearly expense of each inmate, including truants and persons committed to the workhouse, 31,	$95.41
Average monthly expense,	$7.95
Average weekly expense,	$1.94

These facts and figures show some of the results of the work in the department during the past year. The number of families aided outside of the almshouse, and the number of persons thus aided, differ but little from those of the previous year, the number of families being less by only twelve, and of persons less by sixteen. The expenditures for outside relief, however, show a diminution in cost of over two thousand dollars; and this saving, the Board are confident, has been effected without the denial of help to any applicant needing and deserving it. The design of the Overseers is not only or principally the reduction of the expenses of the department. Their purpose has been and is to diminish the amount of pauperism by discouraging in all proper ways applications for outdoor relief. Each year's experience deepens the conviction that the most economical and effective mode of relieving the temporary needs of the poor is through the agency of such voluntary organizations

as the Associated Charities of this city promises to be, and will be, when it has the aid and coöperation which it deserves. We are not yet ready to invoke the aid of legislation to put an end to public and official relief through the poor department; but the end of it will surely come, if relief officers are firm and persistent in efforts to dispense with it. Then something better than money will be saved, — the self-respect of the unfortunate poor.

With the rapid growth of our manufacturing industries comes an increase of population and of applications for pauper relief. Naturally this increases the business of the office, and makes the demands upon the Secretary's time for the investigation of cases more and more exacting. Fortunately the exceptional competency of the clerk, Miss Bucklyn, to the indoor work, makes it possible for him to meet such demands without the interruption of office work. Such investigation, a matter of justice to the city and applicants, is indispensable. If it sometimes exposes falsehood and fraud, it oftener develops needs which the applicants shrink from acknowledging, and which, without such inquiry, would not be supplied. In all cases where there is any doubt as to the need or desert of an applicant, the matter is referred to the whole Board, and if the doubt is not removed the applicant has the benefit of it.

During the past year a larger number than usual of persons asking for help have been given employment at the city wood yard, and thus supported themselves. Offers of employment to such persons are generally accepted, though occasionally one prefers begging to work. The last get no aid, and rarely make a second application.

The cost of maintaining the city almshouse in 1888 is only a trifle less than that of the previous year; and yet, while the average number of inmates supported there has increased, the weekly expense of supporting each has been

materially reduced. A better showing yet is looked for in the near future under the careful supervision of the Superintendent.

Respectfully submitted.

C. B. H. FESSENDEN,
GEO. S. HOMER,
J. HOWLAND, Jr.

January 26, 1889.

REPORT

OF THE

Physician to the Board of Overseers of the Poor,

FOR THE YEAR ENDING DECEMBER 31, 1888.

Gentlemen, — During the past year your physician has made 1828 house calls, received 534 patients at his office, has visited the almshouse 111 times, has attended 8 cases of confinement, and 39 patients have died.

It is impossible for him to give the total number of cases. He has received 234 orders to attend cases: but there were a great many patients left over from the preceding year, how many he does not know, who did not need new orders.

Computing the cases by months the total number was 677; but many of these were duplicated from month to month, so the total number of cases is in reality considerably less.

There were 13 deaths at the almshouse during the year: 8 males and 5 females. There were two births at the almshouse.

Thus one third of the whole number of deaths were at the almshouse. Among the other 26 deaths there were 14 males, 10 females, 1 infant (sex unknown), and 1 still birth.

Of the whole number of deaths there were 13, or $33\frac{1}{3}\%$, seventy years of age or over, and 8 five years or under. Thus 53.8% were seventy or over, or five or under.

There were 6 more births than in the preceding year, and 3 less deaths. Your physician made 7 more visits to the almshouse, made 144 more calls, and had 55 less office calls than in the preceding year.

Thanking the Board for its uniform kindness during the past two years, your physician closes his report.

JAMES H. KINGMAN, M. D.

New Bedford, Jan. 25, 1889.

1889.—CITY DOCUMENT NO. 12.

REPORT

OF THE

Superintendent of Burial Grounds

OF THE

CITY OF NEW BEDFORD,

FOR THE YEAR 1888.

NEW BEDFORD:
MERCURY PUBLISHING COMPANY, PRINTERS TO THE CITY.
1889.

In Board of Aldermen,

March 28, 1889.

Received, ordered printed in the City Documents, and sent down for concurrence.

D. B. LEONARD,

City Clerk.

In Common Council,

March 28, 1889.

Concurred.

WM. A. MACKIE,

Clerk.

REPORT.

To the Hon. Walter Clifford, and the City Council of New Bedford:

The Superintendent of Burial Grounds herewith submits his second annual report, as required by the city ordinance.

At Oak Grove Cemetery nearly the entire section bought two years ago has been cleared and staked off into sections and lots, and part of them sold; and an avenue twenty feet wide has been laid out and thoroughly built from the east entrance line, at the proposed Robeson street entrance, through the centre and sweeping around joining the west main avenue. About one thousand feet of soft avenues have been made passable at any season of the year by cinder foundation, with a gravel top coat. Eight hundred feet of water mains and five hydrants have been placed in the part north of Parker street; and 450 feet with three hydrants in the old part, south of Parker street, which will be found of great benefit during the summer months in the care of flowers and grass.

Three men were kept employed constantly from May to November in the care of the avenues and paths.

The entire fence around the old part has been painted on both sides.

The pavements in the old part have been relaid, and about one thousand feet of paved gutters laid in the new part.

In Rural Cemetery 965 square yards of concrete driveway has been laid, and many of the other avenues have been put in proper order. The old picket fence along the entire north line has been replaced with a new and substantial fence, which has been painted on both sides. The length of the fence is about fifteen hundred feet.

Nothing has been done in this cemetery since 1887 in regard to the extension of water pipes. But this year should see the pipes extended to the main avenue on the high ground. Five men were kept constantly at work from May to November on the avenues and paths.

Lots to the value of $1420 were sold in Oak Grove Cemetery from Jan. 1, 1888, to Jan. 1, 1889, and in Rural Cemetery, for the same period, $1755, a total of $3175.

Jan. 1, 1888, the number of lots under "Perpetual Care" was 71. Jan. 1, 1889, the number was 91, a gain of 20. The care of these lots has had my personal supervision, and the advantages of this system are very apparent.

The number of interments from Jan. 1, 1888, to Jan. 1, 1889, were: Oak Grove, 238; Rural, 220. Total, 458.

At Pine Grove Cemetery there have been no interments, and no sale of lots since I have been in office.

The old burying ground on South Second street has been kept looking as well as possible. It costs about $50 per year to keep it in respectable condition.

Respectfully submitted.

WILLIAM SANDERS,
Superintendent Burial Grounds.

New Bedford, Jan. 1, 1889.

ORDINANCES.

In the Year Eighteen Hundred and Eighty-Eight.

AN ORDINANCE

Amending Section Six (6) of Chapter XV of the City Ordinances.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. Section Six (6) of Chapter XV of the Ordinances of the City of New Bedford, relating to "Drains and Sewer Department," is hereby amended by striking out the last three lines in the first paragraph, to wit: "And the City Clerk shall keep a record of all such permits in the book called the 'Record of Sewers,' provided for in Section Eight of said chapter," and inserting in place thereof the words, "And the Superintendent of Sewers shall keep in his office a record of all such permits in a book to be called 'Record of permits to enter Sewers.'"

Section 2. This ordinance shall take effect upon its passage.

In Board of Aldermen, October 25, 1888.
Passed to be ordained.
MORGAN ROTCH, Mayor.

In Common Council, October 25, 1888.
Passed to be ordained.
STEPHEN D. PEIRCE, President.

Approved October 26, 1888.
MORGAN ROTCH, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Eighty-Nine.

AN ORDINANCE

AMENDING CHAPTER XXXVIII OF THE ORDINANCES OF THE CITY OF NEW BEDFORD RELATIVE TO THE ESTABLISHMENT OF A FARM SCHOOL.

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. Section 1 of Chapter XXXVIII of the City Ordinances is hereby amended by striking out the words "Board of Aldermen" in the fifth line and inserting in place thereof the words "School Committee."

In Board of Aldermen, March 28, 1889.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

In Common Council, March 28, 1889.
Passed to be ordained.
W. A. TUCKER, President.

Approved March 29, 1889.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Eighty-Nine.

AN ORDINANCE

AMENDING SECTION THREE (3) OF CHAPTER XII OF THE CITY ORDINANCES, ENTITLED "BUILDINGS IN THE FIRE DISTRICT."

Be it ordained by the City Council of the City of New Bedford, as follows:

SECTION 1. Section 3 of Chapter XII of the City Ordinances is hereby amended by striking out the word "Unanimous" in the eighth line and inserting in the place thereof the word "Majority."

SECTION 2. This ordinance shall take effect upon its passage.

In Board of Aldermen, April 25, 1889.
Passed to be ordained.

WALTER CLIFFORD, Mayor.

In Common Council, April 25, 1889.
Passed to be ordained.

WILLIAM A. TUCKER, President.

Approved April 29, 1889.

WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.

In the Year Eighteen Hundred and Eighty-Nine.

AN ORDINANCE

To Amend Certain Chapters of the Ordinances of the City of New Bedford.

Be it ordained by the City Council of the City of New Bedford, as follows:

Section 1. The ordinances of the City of New Bedford are hereby amended as follows, to wit:

By striking out the words "Superintendent of Streets to be nominated by the Mayor," in Section 1 of Chapter V.

By striking out the last sentence of Section 8 of Chapter V.

By striking out Section 3 of Chapter IX.

By striking out the whole of Chapters XIV and XV.

By striking out the paragraph relating to expenditures in the highway and street department, beginning at the nineteenth line and ending with the twenty-third line of Section 7 of Chapter XXIII.

By striking out Section 1 of Chapter XXVIII.

By striking out the words "Mayor and Aldermen," wherever the same occur, and inserting in place thereof the words "Board of Public Works," in Sections 7, 8, 9, 10, 15, and 21 of Chapter XXVIII.

By striking out the words "Mayor and Board of Aldermen," wherever the same occur, and inserting in place thereof the words "Board of Public Works," in Sections 4 and 5 of Chapter XLI.

Section 2. This ordinance shall take effect upon the first day of May, A. D. 1889.

In Board of Aldermen, April 11, 1889.
Passed to be ordained.
WALTER CLIFFORD, Mayor.

In Common Council, May 23, 1889.
Passed to be ordained.
WILLIAM A. TUCKER, President.

May 24, 1889.
Approved.
WALTER CLIFFORD, Mayor.

A true copy.
Attest: DANIEL B. LEONARD,
City Clerk.